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Yields of the Field Experiments 1950

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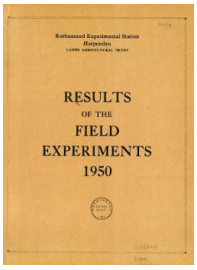

50/BF/2 Market Garden - Woburn Second Crops

Rothamsted Research

Rothamsted Research (1951) *50/BF/2 Market Garden - Woburn Second Crops ;* Yields Of The Field Experiments 1950, pp 52 - 54 **- DOI: https://doi.org/10.23637/ERADOC-1-185**

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50/Bf/2.1

WOBURN MARKET GARDEN EXPERIMENT

Leeks and Winter Cabbages 2nd Crops of 9th year.

Organic manures and sulphate of ammonia - Lansome 1950-51.

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

Area of each plot: 0.0125 acre.

Treatments:

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

Sulphate of ammonia: None, 0.4 cwt N per acre on organic manure plots. None, 0.4, 0.8, 1.2 cwt N per acre on plots not receiving organic manures.

Basal manuring: None.

Cultivations, etc.:

Series B. Leeks.

Ploughed and harrowed: July 12. Sulphate of ammonia applied, plots having 0.8 and 1.2 cwt N receiving only half their dressings: July 13. Leeks planted and watered in: July 13-18. Cultivated: July 27. Hoed: July 31-Aug 2, Aug 9, 10, 12-16. 25-30, Sept 1-2, 4-8 and 11. Replanted where necessary: Aug 21 and Sept 1. Second dressing of sulphate of ammonia applied to plots having 0.8 and 1.2 cwt N: Nov 17. Lifted: Feb 13-Mar 28. Variety: Musselburgh. Previous crop: Peas.

Series A. Winter Cabbages.

Ploughed: July 27. Harrowed, rolled, sulphate of ammonia applied, plots having 0.8 and 1.2 cwt N receiving only half their dressings July 28. Cabbages planted and watered in: July 28-29. Replanted where necessary: Aug 8-9, 21 and Sept 21. Hoed: Aug 9-10 and Sept 2-4. Second dressing of sulphate of ammonia applied to plots having 0.8 and 1.2 cwt N: Nov 17. Lifted: Feb 23-Apr 10. Variety: January King. Previous crop: Globe Beet.

Standard errors per plot:

Leeks,	total weight	9.40 cwt per acre or 8.8% (17 d.f.)
	plant number:	0.560 thousands per acre or 1.3% (")
Winter Cabbages,	marketable weight:	0.662 tons per acre or 8.3% (")
	plant number:	1.01 thousands per acre or 6.7% (")

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Summary of Results

Leeks

Organic manures	Level of manuring tons per acre	Sulphate of Ammonia cwt N per acre: None	0.4	0.8	1.2	Mean
Total weight: cwt per acre						
			(±6.64)			(±4.70)
None		64.2	89.6	94.4	104.8	77.0*
Dung	15	96.8	105.2			101.0
	30	104.8	119.4			112.1
Sludge compost	15	96.3	123.1			109.7
	30	117.9	117.9			117.9
Sludge	15	112.2	114.4			113.3
	30	129.4	129.9			129.6
Vegetable compost	15	93.2	115.2			104.2
	30	96.2	107.4			101.8
Plant number: thousands per acre						
			(±0.40)			(±0.28)
None		43.2	42.5	42.4	42.8	42.8*
Dung	15	42.6	43.4			43.0
	30	43.0	42.2			42.6
Sludge compost	15	42.3	42.8			42.6
	30	43.6	41.9			42.8
Sludge	15	43.0	42.8			42.9
	30	42.4	42.4			42.4
Vegetable compost	15	42.8	42.9			42.9
	30	42.6	43.0			42.8

* Mean over None and 0.4 cwt N per acre only.

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Winter Cabbages

Organic manures	Level of manuring tons per acre	Sulphate of Ammonia cwt N per acre: None	0.4	0.8	1.2	Mean
Marketable weight: tons per acre						
			(±0.468)			(±0.331)
None		3.70	5.90	7.47	8.15	4.80*
Dung	15	6.30	7.80			7.05
	30	8.02	9.24			8.63
Sludge compost	15	6.26	7.06			6.66
	30	7.52	10.64			9.08
Sludge	15	8.16	10.30			9.23
	30	11.57	10.67			11.12
Vegetable compost	15	5.60	7.71			6.65
	30	7.82	9.70			8.76
Plant number: thousands per acre						
			(±0.71)			(±0.51)
None		11.6	13.4	15.1	15.6	12.5*
Dung	15	14.6	15.5			15.1
	30	15.6	16.2			16.0
Sludge compost	15	13.7	14.9			14.3
	30	15.3	16.0			15.7
Sludge	15	14.8	16.2			15.5
	30	16.2	15.8			16.0
Vegetable compost	15	12.8	15.2			14.0
	30	15.2	16.6			15.9

*Mean over None and 0.4 cwt N per acre only.