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Yields of the Field Experiments 1950



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50/BF/1 Market Garden - Woburn First Crops

Rothamsted Research

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50/Bf/1.1

WOBURN MARKET GARDEN EXPERIMENT

Globe Beet and Green Peas. 1st crops of 9th year.

Organic manures and sulphate of ammonia - Lansome 1950.

System of replication: two 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: Dung, sewage sludge compost, scwage sludge (West Middlesex), and vegetable compost, each at 15 and 30 tons per acre. Sulphate of ammonia: None, 0.2 cwt N per acre on organic manure plots. None, 0.2, 0.4, 0.6 cwt N per acre on plots not receiving organic manures.

Basal Manuring: Superphosphate: 0.4 cwt P205 per acre Muriate of potash: 0.5 cwt K20 per acre.

Cultivations, ctc.:

Series A. Globe Beet.

Organics applied and ploughed in: Mar 22-24. Ground chalk applied to all plots receiving sulphate of ammonia (plots having 0.4 N at 11 cwt per acre, plots having 0.6 N at 17 cwt per acre, other plots at 6 cwt per acre): Mar 30. Springtine harrowed, rolled, harrowed and rolled, sulphate of ammonia applied (plots having 0.4 and 0.6 N receiving only half their total dressings), seed drilled and rolled in: Mar 31. Woeded and hoed: May 12, 17 and 24. Hoed: June 1-5 and 12. Singled: June 19-27. Second dressing of sulphate of ammonia applied to plots having 0.4 and 0.6 cwt N, and all plots hoed: June 28. Lifted: July 12-24. Variety: "Detroit". Previous crop: Leeks.

Series B. Green Peas.

Organics applied and ploughed in: Mar 8-9. Harrowed twice, rolled and harrowed: Mar 18. Springtime harrowed and rolled: Mar 20. Harrowed, rolled, sulphate of ammonia applied (plots having 0.4 and 0.6 cwt N receiving only half their total dressings), peas drilled and rolled in: Mar 21. Hoed: Apr 20-21. Weeded: Apr 28. Second dressing of sulphate of ammonia applied to plots having 0.4 and 0.6 cwt N: June 12. Harvested: June 28-July 10. Variety: Kelvedon Wonder. Previous crop: Winter Cabbage.

Standard errors per plot:

Globe Beet, total produce: 1.04 tons per acre or 13.9% (17 d.f.) weight of bulbs: 0.664 tons per acre or 16.1% (17 d.f.) plant number: 11.7 thousands per acre or 12.1% (17 d.f.) Green Peas, marketable produce: 11.3 cwt per acre or 22.2% (17 d.f.)

50/Bf/1.2

Summary of Results

	G:	Lo bo Beet	;				
Organic Manures	Level.of manuring (tons/acre)	Su None	lphate of cwt N per 0.2	ammoni acre 0.4	.a 0.6	Mcan	
	Total produce:	Mean 7.	49 tons p	er acre	,	_	
		(<u>+</u> 0.739)					
None Dung Sludge compost Sludge Vegetable compost	15 - 30 15 30 15 30 15 30	3.30 6.14 10.62 6.38 7.74 8.08 10.12 5.23	5.20 8.28 9.58 6.12 7.28 9.12 10.34 6.54	7.06	6.96	4.25 [¥] 7.21 10.10 6.25 7.51 8.60 10.23 5.88	
	30	7.56	8.18			7.88	
Wet	ight of bulbs:	Mean 4,	12 tons p	er acre			
		(<u>+</u> 0.469)					
None Dung Sludge compost Sludge Vegetable compost	15 30 15 30 15 30 15 30	1.85 3.22 5.86 3.52 4.34 4.54 5.85 2.84 4.04	2.78 4.74 5.48 3.29 4.10 4.97 5.76 3.41 4.50	3.64	3.62	(+0.332) 2.32 [±] 3.98 5.66 3.41 4.22 4.76 5.81 3.12 4.27	
Pla	nt number: Me	an 97.1			re ·		
None			700	.30)		(+5.87)	
None Dung Sludge compost Sludge Vegetable compost	15 30 15 30 15 30 15 30		104.0 1 102.2 97.2 96.4 83.6 79.8 86.6 100.8 82.4	05.7	112 . 4	99.7 ⁵ 102.9 101.3 100.4 93.7 86.9 85.8 99.4 92.0	
* Mean over None a	and 0.2 cwt N	per acre	only.				

Green Peas

50/Bf/1.3

Organic Manures	Level of manuring (tons/acre)	None		of ammon per acre 0.4		Mean
.1	Marketable wei	ght: Mean	50.8 ct	wt per e	icre	
	(<u>+</u> 8.00)					
None Dung Sludge compost Sludge Vegetable compost	15 30 15 30 15 30 15 30 5 30	45.0 68.5 57.8 51.4 69.6 27.5 33.2 47.8 56.4	32.8 64.2 64.9 43.9 47.1 49.2 46.4 58.5 53.5	45.7	52.8	(+5.66) 38.9 ⁵⁷ 66.4 61.4 47.6 58.3 38.4 39.8 53.2 55.0

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