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60/W/B/6 Market Garden Soil

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60/B/6.1

WOBURN MARKET GARDEN EXPERIMENT

Organic manures and nitrogen - Lansome Field 1960, the 19th year.

For treatments etc., see "Details of the Classical and Long Term Experiments" 1956.

Note: The results for the 1960-61 leeks will be included in the 1961 report.

Area of each plot (acres): 0.0125. Area harvested: Leeks - 0.0104; globe beet - 0.0113; early potatoes - 0.0070.

Cultivations, etc.:

Leeks 1959-60. Organic manures applied: July 16, 1959. Ploughed: July 17. 'Nitro-Shell' and basal fertilisers applied: July 27. Planted: July 27 - 29. Second dressing of 'Nitro-Shell' applied: Oct 7. Harvested: Mar 4 - Apr 26, 1960. Variety: Musselburgh. Early potatoes. Ploughed: Sept 4, 1959. Organic manures applied, ploughed second time: Jan 8, 1960. Fertilisers applied on the flat: Apr 4. Machine planted: Apr 5. Earthed up: May 17. Lifted: July 12. Variety: Arran Pilot.

Globe beet. Ground chalk applied at 18 cwt per acre: May 2, 1960. Organic manures applied, ploughed: May 3. 'Nitro-Chalk' and basal fertilisers applied: May 12. Seed drilled at 14 lb per acre: May 16. Sprayed with miscible DDT at 3 pints in 40 gallons per acre: May 30. Second dressing of 'Nitro-Chalk' applied: June 28. Harvested: Aug 4 - Sept 7. Variety: Detroit. There was no singling owing to poor stand.

Standard errors per plot:

Leeks 1959-60.	Saleable produce:	0.476 tons per acre or 6.6% (17 d.f.)
Early potatoes.	Total tubers:	0.565 tons per acre or 6.2% (17 d.f.)
Globe beet.	Saleable bulbs:	1.006 tons per acre or 14.7% (17 d.f.)

60/B/6.2

Summary of Results

	Level of manuring: tons per acre	N: cwt per acre				
Organic manures		None	0.3	0.6	0.9	Mean
<u>Leeks 1959-60. Saleable produce: tons per acre</u>						
			(±0.336)			(±0.238)
None		5.37	6.70	6.90	6.57	6.04*
Dung	10	7.45	7.67			7.56
	20	8.35	8.14			8.24
Sludge compost	10	7.40	7.28			7.34
	20	6.87	7.50			7.18
Sludge	10	7.11	6.81			6.96
	20	6.43	7.27			6.85
Vegetable compost	10	7.69	7.98			7.84
	20	7.81	7.62			7.72
Mean (±0.119)		7.39 ⁺	7.54 ⁺			7.25**

<u>Leeks 1959-60. Percentage saleable (by number)</u>						
None		98.4	98.7	98.8	99.2	98.6*
Dung	10	99.5	98.8			99.2
	20	98.9	99.1			99.0
Sludge compost	10	98.9	99.2			99.1
	20	98.3	98.5			98.4
Sludge	10	99.4	98.7			99.0
	20	98.5	98.8			98.6
Vegetable compost	10	99.5	99.6			99.6
	20	99.0	99.2			99.1
Mean		99.0 ⁺	99.0 ⁺			99.0**

<u>Early potatoes. Total tubers: tons per acre</u>						
			(±0.400)			(±0.282)
None		6.25	7.16	8.35	9.27	6.70*
Dung	10	9.40	10.80			10.10
	20	10.39	10.69			10.54
Sludge compost	10	8.68	8.96			8.82
	20	9.41	9.20			9.30
Sludge	10	8.19	8.78			8.48
	20	9.22	9.25			9.23
Vegetable compost	10	8.87	10.78			9.83
	20	9.32	9.52			9.42
Mean (±0.141)		9.19 ⁺	9.75 ⁺			9.12**

* Mean over None and 0.3 cwt N per acre only. ** General mean.
⁺ Excluding 'no organics'.

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Globe beet

Organic manures	Level of manuring:	N: cwt per acre				Mean
	tons per acre	None	0.3	0.6	0.9	
<u>Saleable bulbs: tons per acre</u>						
			(± 0.711)			(± 0.503)
None		1.46	3.31	5.60	4.23	2.39*
Dung	10	5.62	8.66			7.14
	20	10.64	11.01			10.82
Sludge compost	10	4.98	6.93			5.95
	20	7.20	7.75			7.47
Sludge	10	6.42	5.19			5.80
	20	5.20	8.14			6.67
Vegetable compost	10	6.80	8.60			7.70
	20	8.34	10.90			9.62
Mean (± 0.252)		6.90 ⁺	8.40 ⁺			6.85**
<u>Total produce (whole plants): tons per acre</u>						
None		3.61	7.04	10.52	8.34	5.33*
Dung	10	8.86	14.39			11.62
	20	17.45	17.52			17.49
Sludge compost	10	9.31	13.18			11.24
	20	13.79	13.54			13.66
Sludge	10	11.57	10.33			10.95
	20	11.47	15.89			13.68
Vegetable compost	10	11.26	13.36			12.30
	20	12.70	17.97			15.34
Mean		12.05 ⁺	14.52 ⁺			12.10**
<u>Plant number: thousands per acre</u>						
None		86.6	116.8	119.3	113.5	101.7*
Dung	10	80.4	126.2			103.3
	20	117.8	105.7			111.8
Sludge compost	10	83.7	137.5			110.6
	20	133.9	68.4			101.2
Sludge	10	92.3	92.1			92.2
	20	131.7	134.5			133.1
Vegetable compost	10	102.3	97.0			99.7
	20	62.7	102.8			82.8
Mean		100.6 ⁺	108.0 ⁺			105.3**

* Mean over None and 0.3 cwt N per acre only.

** General mean.

⁺ Excluding 'no organics'.