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68/B/4 Woburn Market Garden - Beans

Rothamsted Research

Rothamsted Research (1970) *68/B/4 Woburn Market Garden - Beans* ; Numerical Results Of The Field Experiments 1968, pp 95 - 98 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/B/4.1

WOBURN MARKET GARDEN

(WMG)

Residues of organic manures, P and K on spring beans -
Lansome I 1968.

For history (treatments) etc. see 'Details 1967' and 'Results'
63/B/5, 64/B/5, 65/B/5, 66/B/5 and 67/B/5.

Area of each plot: 0.0109. Area harvested: 0.0041.

Treatment symbols: (No manures applied 1968).

Farmyard manure: 10 (D1), 20 (D2) tons.

Sewage sludge: 10 (S1), 20 (S2) tons.

Sewage sludge/
straw compost: 10 (T1), 20 (T2) tons.

Vegetable compost: 10 (C1), 20 (C2) tons.

Peat: 12.5 (PT) tons.

PK fertiliser: None (P0K0), 1.5 cwt P205, 1.5 cwt K20 until
1967 (P1K1). 1.5 cwt P205, 3.0 cwt K20 until
1964 on Series B and 1965 on Series A, then
3.0 cwt P205, 3.0 cwt K20 on both until 1967
(P2K2).

Basal applications: Manures: None. Weedkiller: Simazine at 0.75 lb
in 33 gals. Insecticide: Demeton-s-methyl at 3.5 oz in 37 gals.

Cultivations, etc.: Ploughed: 25 Nov, 1967. Seed drilled at 200 lb:
28 Feb, 1968. Weedkiller applied: 1 Mar. Insecticide applied:
17 June. Series B combine harvested: 20 Sept, Series A: 23 Sept.
Variety: Tarvin.

68/B/4.2

SUMMARY OF RESULTS

GRAIN

SERIES A

Organic 1942-61* 1963-67		POKO	PK1	P2K2	Mean
O	O		35.1	32.2	33.6
S1	O		34.3**		
S2	O		35.7**		
T1	O		35.2**		
T2	O		35.1**		
D1	D1	34.0	32.5		33.3
D2	D2	34.9	32.6		33.7
C1	D1	33.2	36.0		34.6
C2	D2	32.1	35.5		33.8

General mean: 34.3

Mean D.M. %: 74.9

* Last applied to leeks 1961/62

** PK1 until 1965

68/B/4.3

GRAIN

SERIES B

Organic			POKO	P1K1	P2K2	Mean
1942-62	1963-64	1966-67				
O	O	O		29.0	30.8	29.9
O	O	PT		30.1	29.1	29.6
S1	O	O	31.7*			
S2	O	O	32.3*			
T1	O	O	32.3*			
T2	O	O	33.2*			
D1	D1	D1	28.9	31.0		
D1	D1	O	34.2	30.6		
D2	D2	D2	30.7	30.6		
D2	D2	O	29.8	28.3		
C1	D1	D1	29.9	31.6		
C2	D2	D2	27.5	29.2		

General mean: 30.9

Mean D.M. %: 69.7

* P1K1 until 1964

TABLE 1. SUMMARY OF DATA SOURCES				TABLE 2. SUMMARY OF DATA SOURCES			
Source	Year	Location	Sample Size	Source	Year	Location	Sample Size
1	2010	1	100	1	2010	1	100
2	2011	2	150	2	2011	2	150
3	2012	3	200	3	2012	3	200
4	2013	4	250	4	2013	4	250
5	2014	5	300	5	2014	5	300
6	2015	6	350	6	2015	6	350
7	2016	7	400	7	2016	7	400
8	2017	8	450	8	2017	8	450
9	2018	9	500	9	2018	9	500
10	2019	10	550	10	2019	10	550