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RESEARCH

# Collection of Plans for the Woburn Organic Manuring Experiment

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## W/RN/12 - Woburn Organic Manuring 1990 - 1994

### Rothamsted Research

Rothamsted Research (1966-1988) *W/RN/12 - Woburn Organic Manuring 1990 - 1994* ; Collection Of Plans For The Woburn Organic Manuring Experiment, pp 25 - 29

1990

STACKYARD B.

26 TH Year

EXPERIMENT

ORGANIC MANURING

WOUBURN

Sponsor: P. R. Poulton  
TREATMENTS to Winter Wheat (Ww) and Winter Beans (BE)

Residues of Organic Manures

(Dg) FYM annually 1985-71 and 1981-85

(St) Straw annually 1965-71 and 1981-85

(Gm) Green Manure annually 1965-71 then (Lc8) Ley (clover/grass)

1979-86 (BE) 1980-87 (Ww)

(Pt) Peat annually 1965-71 then (Lc8) 1979-86 (BE) 1980-87 (Ww)

Residues of Fertilizers

(Fd) P, K, Mg equivalent to (Dg) rate annually 1965-71 and 1981-85 (Ww)

(Fs) K, Mg equivalent to straw with P annually 1965-71 then

± Dg rate 1981-86 (Ww) 7 (BE)

Legs: (Lc) (clover/grass/ley) 1965-71 then (Lc6) 1981-86 (BE) 7 (Ww) - clover/grass/ley  
(Lc7) Grass ley with N

Sub Plot N Treatments. kg ha<sup>-1</sup>

1, 2, 3, 4, 5 0, 50, 100, 150, 200, 250 (Ww)  
(-), (1), (2), (3), (4), (5) 0, 50, 100, 150, 200, 250, (BE) applied in 1989.

STANDARD APPLICATIONS per hectare

Manures: (0:17:34) @ 588 kg with seed and

Mn foliar spray @ SFP in spring. (BE) and (Ww)

Wheat only: Cartafuran @ 7.5 kg, Drago pellet's (standard rate) must be applied

7-14 days before sowing, repeat with seed

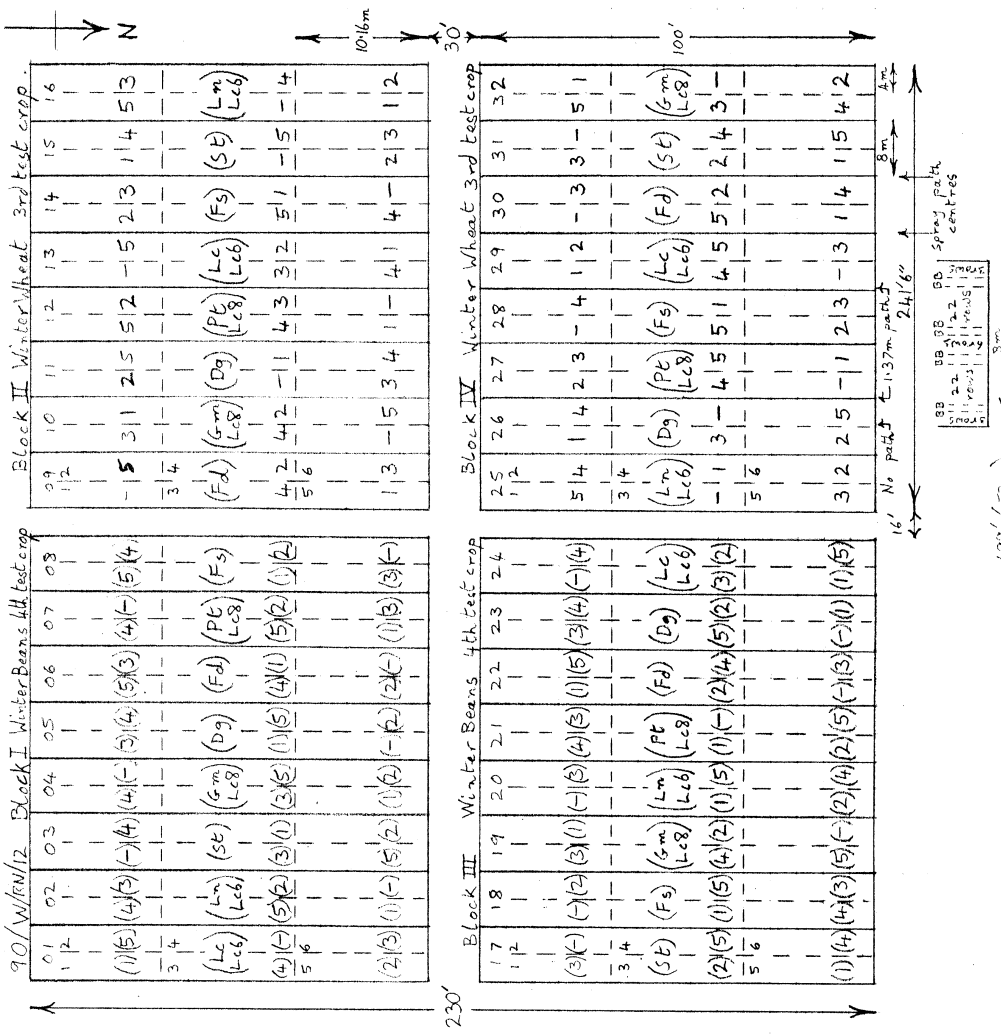
VARIETIES: BE Banner sown @ Kgha' Date;

Ww Mercia sown @ Kgha' Date;

SOB PLOT AREA: 14' x 30' = 0.0039 ha.

Wheat plots drilled without paths between sub-plots. Cross paths to be cut just before N application to allow for maximum sampling area before them.

W. Beans are sown solid, seed ploughed in, and paths cut later



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27th Year STACKYARD B 1991

Sponsor: PR. Peulston  
TREATMENTS to W. wheat (NW) and W. beans (BE)

Residues of organic manures

- (Dg) FYM annually 1965-71 and 1981-85
- (St) Straw annually 1965-71 and 1981-85
- (Gm) Green manure annually 1965-71 then (Le8) Leg (Clover/Grass) 1979-86 (BE) 1980-87 (NW)
- (Pt) Peat annually 1965-71 then (Le8) 1979-86 (BE) 1980-87 (NW)

Residues of Fertilizers

- (F0) P, K, Mg equivalent to (Dg) rate, annually 1965-71 and 1981-6 (BE) 7 (NW)
- (F5) K, Mg equivalent to straw with P annually 1965-71 then
- (F10) Dg rate 1981-6 (NW) 7 (BE)

Lays: (Le) Clover/Grass by } 1965-71 then (Le6) 1981-6 (BE) 7 (NW) - clover/Grass leg  
(L7) Same lay with N

Sub Plot N Treatments Kg N ha<sup>-1</sup>

- 1, 2, 3, 4, 5, 0, 50, 100, 150, 200, 250. NW
- (-)(0)(2)(3)(4)(5) 0, 50, 100, 150, 200, 250. BE applied in 1970 & previous Ws

STANDARD APPLICATIONS ha<sup>-1</sup>

- Manures: BE: (0.16:36) @ 556kg
- NW: (0.16:36) @ 556kg
- Min. foliar spray @ 5FP in spring

VARIETIES: BE Banner sown @ 2.1 t/ha / m<sup>2</sup> (150 kg/ha) on 23 October 1990  
NW Hereta sown @ 150 kg/ha Date: 27 September 1990

SUBPLOT AREA 14' x 30' = 0.0039 ha.

W. beans are sown solid, seed ploughed in, and paths cut later

ORGANIC MANURING EXPERIMENT

Block III W. beans 4th test crop

09	10	11	12	13	14	15	16
(-)(5)	(3)(1)	(2)(5)	(5)(2)	(-)(5)	(2)(3)	(1)(4)	(5)(3)
(Fd)	(Gm)	(Dg)	(Pt)	(Le)	(F5)	(St)	(Lm)
(4)(2)	(4)(2)	(-)(1)	(4)(3)	(3)(2)	(5)(1)	(-)(5)	(-)(4)
23	1	5	2	1	2	2	1
(Le)	(Le6)	(S0)	(Gm)	(Dg)	(F0)	(Pt)	(F5)
4	5	2	3	1	5	4	1
5	6						

Block III W. wheat

17	18	19	20	21	22	23	24
3	1	2	3	1	3	4	1
(St)	(F5)	(Gm)	(Lm)	(Le6)	(Pt)	(Dg)	(Le)
2	5	1	5	1	2	4	3
1	4	3	5	2	4	2	5
1	4	3	5	2	4	2	5

Block IV W. beans 4th test crop

25	26	27	28	29	30	31	32
(5)(4)	(1)(4)	(2)(3)	(-)(4)	(1)(2)	(-)(3)	(3)(-)	(5)(1)
(Lm)	(Dg)	(Pt)	(F5)	(Le)	(Fd)	(St)	(Gm)
(-)(1)	(3)(-)	(4)(5)	(5)(1)	(4)(5)	(5)(2)	(2)(4)	(3)(-)
1	4	3	5	2	4	2	5
1	4	3	5	2	4	2	5

88	89	90	91	92	93	94	95	96
1	2	3	4	5	6	7	8	9

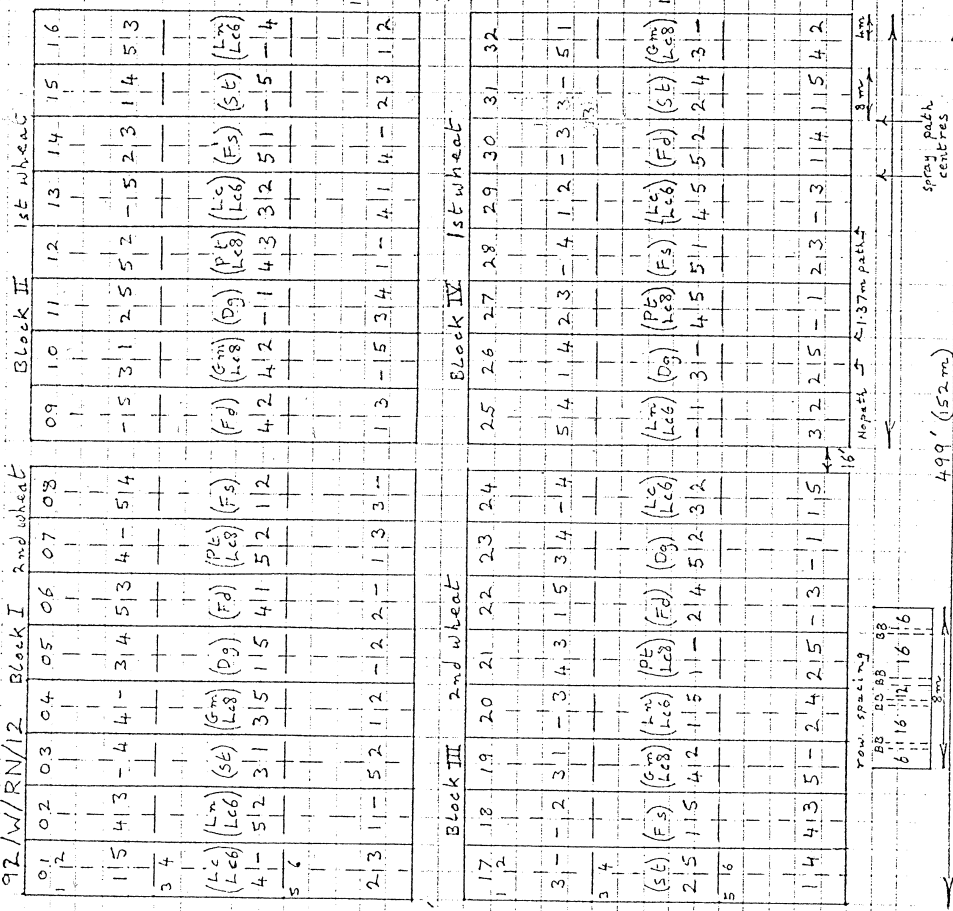
499' (152m)

WOBURN  
28th year STACKYARD B 1992  
Sponsor: P. R. Poulton

ORGANIC MANURING EXPERIMENT

W. Wheat

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TREATMENTS

Residues of organic manures

(Dg) FYM annually 1965-71 and 1981-85

(St) straw annually 1965-71 and 1981-85

(Gm) Green manure annually 1965-71 then (Lc8) 1st

(claver/grass) 1979-88 (Blks I-III) 1980-87 (Blks IV-V)

(Pb) Peat annually 1965-71 then (Lc8) 1979-86 (Blks I-III) 1980-87 (Blks IV-V)

Residues of Fertilizers

(Fd) P K Mg Equivalent to (Dg) rate, annually 1965-71 1981-6 (Blks I-III) 7 (Blks IV-V)

(Fs) K Mg Equivalent to straw with P annually 1965-71 then

1/2 Dg rate 1981-6 (Blks IV-V) 7 (Blks I-III)

Lays: (Lc) claver/grass, (Lg) 1965-71 then (Lc6) 1981-6 (Blks IV-V) 7 (Blks I-III)

(Ln) Grass lay with N - claver/grass lay

Subplot N Treatments Kg N/ha

1, 2, 3, 4, 5, 0, 50, 100, 150, 200, 250

BASAL MANURE

P & K (0:16:36) @ 560 Kg/ha on 3 Oct 1991

Mn foliar spray @ SFP in spring

VARIETY

Maris sown @ 140 Kg/ha on 3 Oct 1991

SUBPLOT AREA

14 x 30 = 0.0032 ha



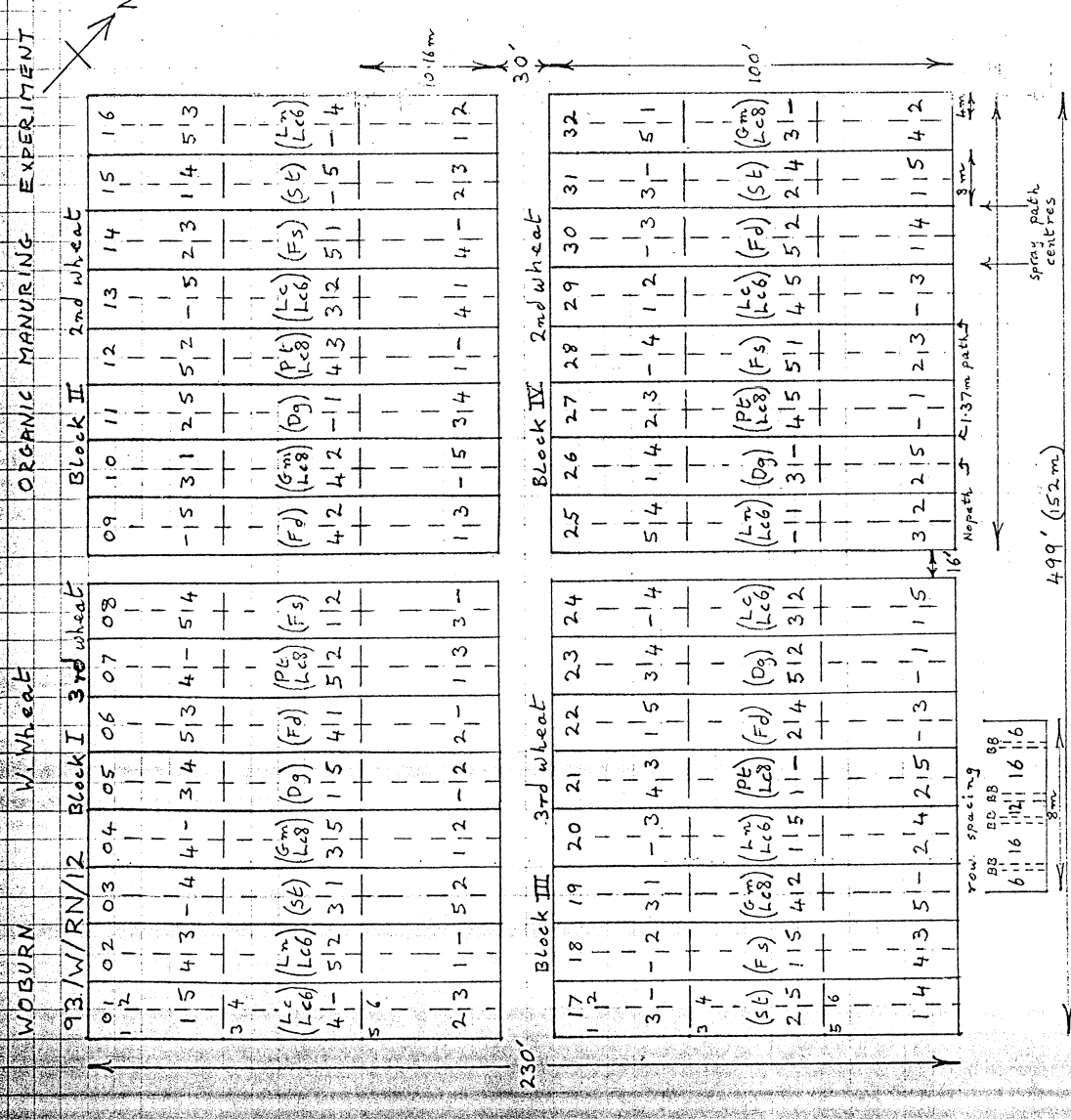
WOBURN 1993 29th year STACKYARD B 1993 204  
 Sponsor: P. R. Poulton

**TREATMENTS**  
 Residues of organic manures  
 (Dg) FYM annually 1965-71 and 1981-85  
 (St) Straw annually 1965-71 and 1981-85  
 (Gm) Green manure annually 1965-71 then (Lc8) Ley  
 (clover/grass) 1979-86 (Blks I & III) 1980-87 (Blks II & IV)  
 (Pt) Peat annually 1965-71 then (Lc8) 1979-86 (Blks I & III) 1980-87 (Blks II & IV)  
 Residues of Fertilisers  
 (Fd) P K Mg Equivalent to (Dg) rate, annually 1965-71 & 1981-86 (Blks I & III) 7 (Blks II & IV)  
 (Fs) K Mg Equivalent to straw with P annually 1965-71 then  
 1/2 Dg rate 1981-6 (Blks II & IV) 7 (Blks I & III)  
 Lays: (Lc) clover/grass ley } 1965-71 then (Lc6) 1981-86 (Blks I & III) 7 (Blks II & IV) -  
 (Lm) Grass ley with N } - clover/grass ley

Subplot N Treatments Kg N ha<sup>-1</sup>  
 -, 1, 2, 3, 4, 5. 0, 50, 100, 150, 200, 250.

**BASAL MANURE**  
 P & K (0:16:36) @ 556 Kg ha<sup>-1</sup>  
 Mn foliar spray @ SFP in spring

**VARIETY**  
 Mercia sown @ 130 Kg ha<sup>-1</sup> on 7 Oct 1992  
 SUB PLOT AREA 14' x 30' = 0.0039 ha.

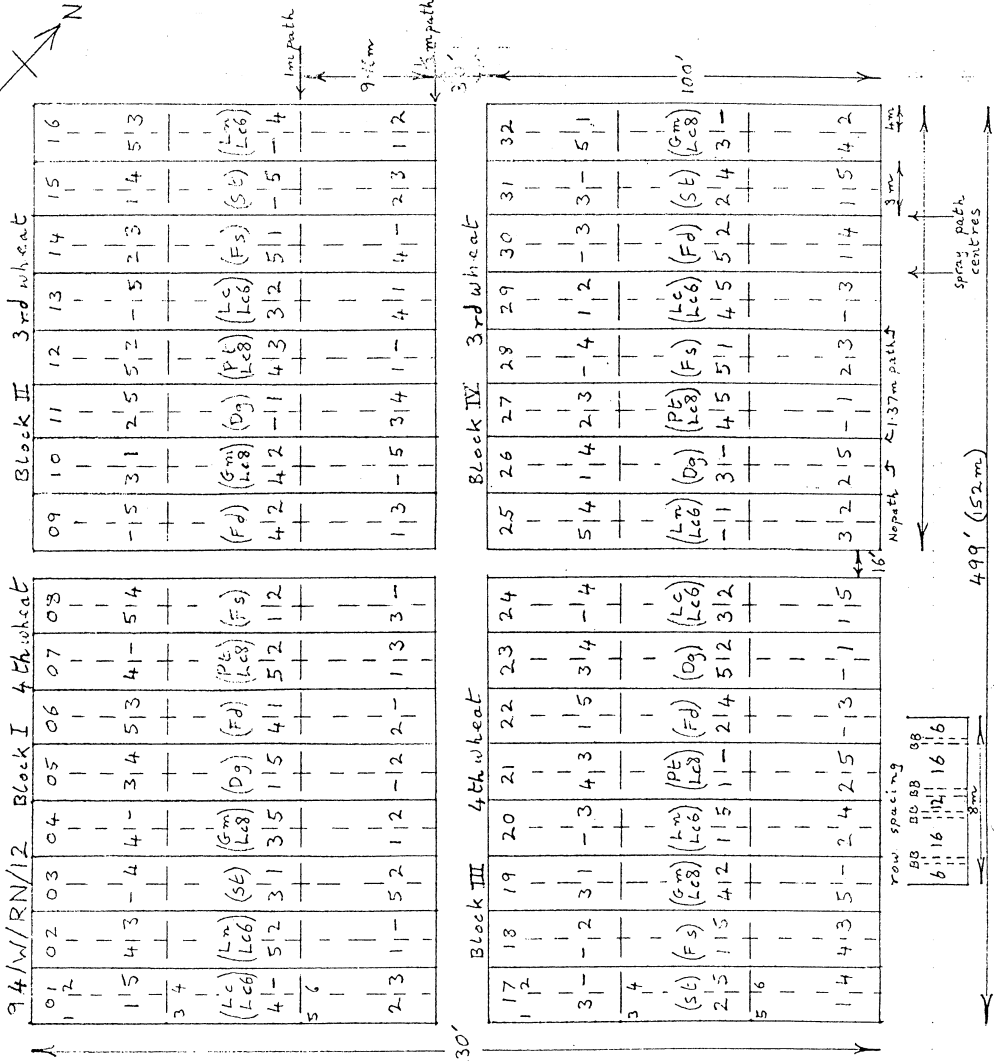


row spacing

88	88	88
6	16	16
11	11	11
8	8	8

30th year STACKYARD B 1994  
 Sponsor: P. R. Poulton

WOBURN W. Wheat  
 ORGANIC MANURING EXPERIMENT  
 94 W/RN/12



TREATMENTS

Residues of organic manures

- (Dg) FYM annually 1965-71 and 1981-85
  - (St) Straw annually 1965-71 and 1981-85
  - (Gm) Green manure annually 1965-71 then (Lc8) ley (Clover/grass) 1979-86 (Blks I & III) 1980-87 (Blks II & IV) Peat annually 1965-71 then (Lc8) 1979-86 (Blks I & III) 1980-87 (Blks II & IV)
- Residues of Fertilizers
- (Fd) PK Mg Equivalent to (Dg) rate, annually 1965-71 & 1981-86 (Blks I & III) 7 (Blks II & IV)
  - (Fs) K Mg Equivalent to straw with P annually 1965-71 then 1/2 Dg rate 1981-86 (Blks II & IV) 7 (Blks I & III)
  - Lays: (Lc) Clover/grass ley 1965-71 then (Lc6) 1981-86 (Blks I & III) 7 (Blks II & IV) - (Ln) Grass ley with N - clover/grass ley

Subplot N Treatments Kg N ha<sup>-1</sup>

- 1, 2, 3, 4, 5, 0, 50, 100, 150, 200, 250.

BASAL MANURE

P & K (0.16:36) @ 556 kg/ha for blocks II & IV only  
 Mn foliar spray @ 5FP in spring

VARIETY

Mercia dressed Panicleline @ 325 seeds/m<sup>2</sup> on 16 Oct 1993

SUB PLOT AREA

14' x 30' = 0.37 ha.  
 harvested area = 2m x 9/16 = 0.00183 ha