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ROTHAMSTED
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

WOBURN

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⁻¹

0, 50, 100, 150, 200, 250 (Ww)

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, Drazo pellet's (standard rate) must be applied

7-14 days before sowing, repeat with seed

VARIETIES: BE Banner sown @ Kgha⁻¹ Date;

Ww Mercia sown @ Kgha⁻¹ Date;

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

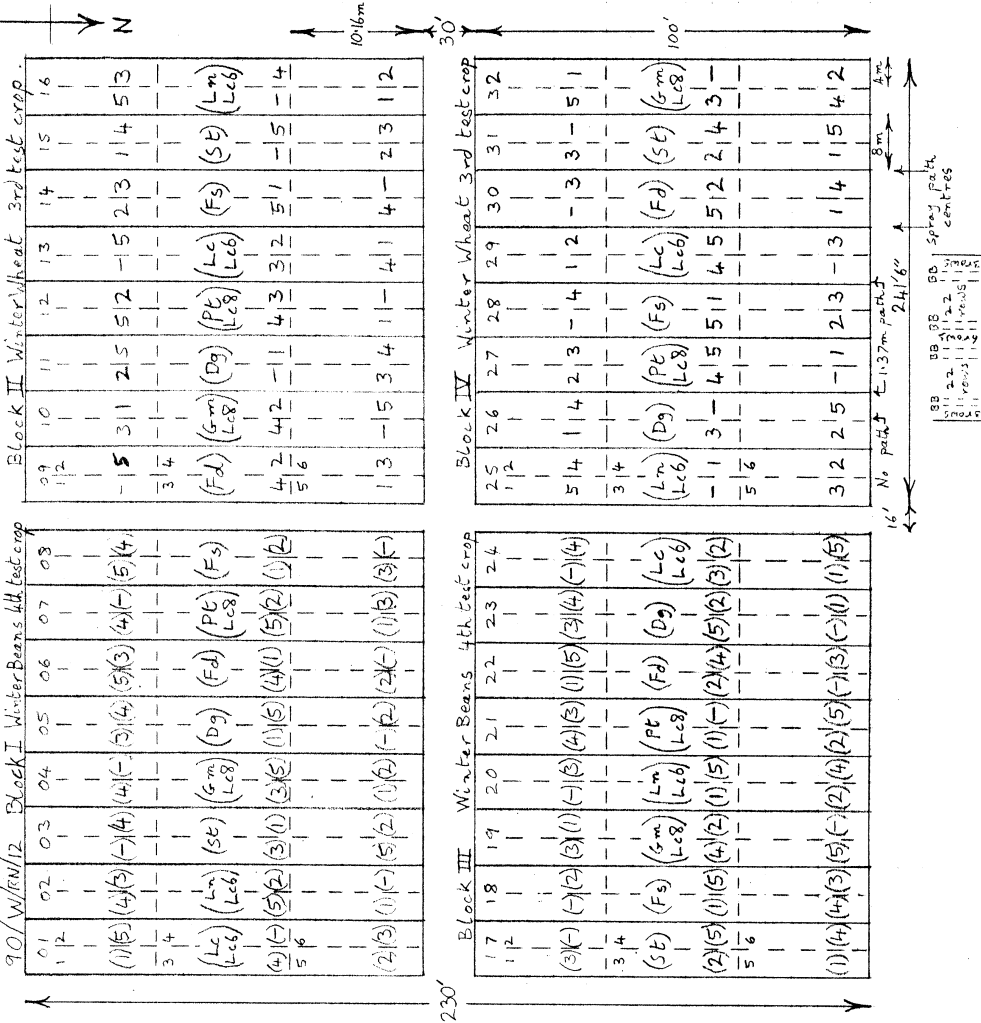
Wheat plots drilled without paths between sub-plots. Cross paths

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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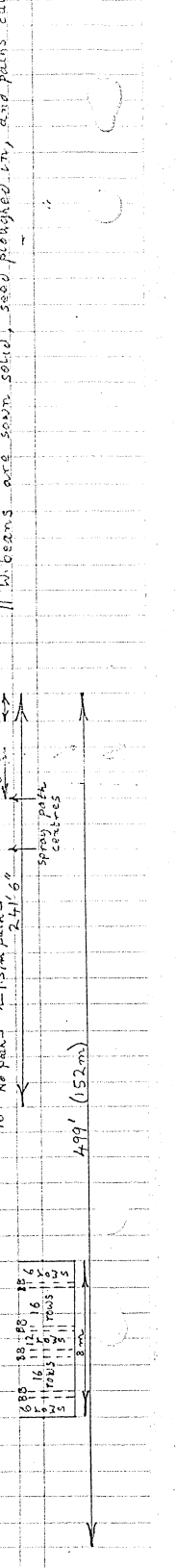
WOBURN W. wheat & W. beans ORGANIC MANURING EXPERIMENT 27th Year STACKYARD B 1991

91/W/RN/12 Block I W. wheat Block II W. beans 4th test crop

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64

Block III W. wheat Block IV W. beans 4th test crop

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64



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 (Lc8) Leg (clover/grass) 1979-86 (BE) 1980-87 (NW)
- (Pt) Peat annually 1965-71 then (Lc8) 1979-86 (BE) 1980-87 (NW)
- Residues of Fertilizers
- (Fk) P, K, Mg equivalent to (Dg) rate, annually 1965-71 and 1981-86 (BE) 7 (NW)
- (Fs) K, Mg equivalent to straw with P annually 1965-71 then (Lc8) 1981-86 (NW) 7 (BE)
- Lays: (Lc) Clover/grass by } 1965-71 then (Lc6) 1981-86 (BE) 7 (NW) - clover/grass leg
(Lc) Grass by with N }

Sub plot N Treatments Kg N ha⁻¹
-1, 2, 3, 4, 5. 0, 50, 100, 150, 200, 250. NW
(-)(1)(2)(3)(4)(5). 0, 50, 100, 150, 200, 250. BE applied in 1970 & previous Ws

STANDARD APPLICATIONS ha⁻¹
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 / m² (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

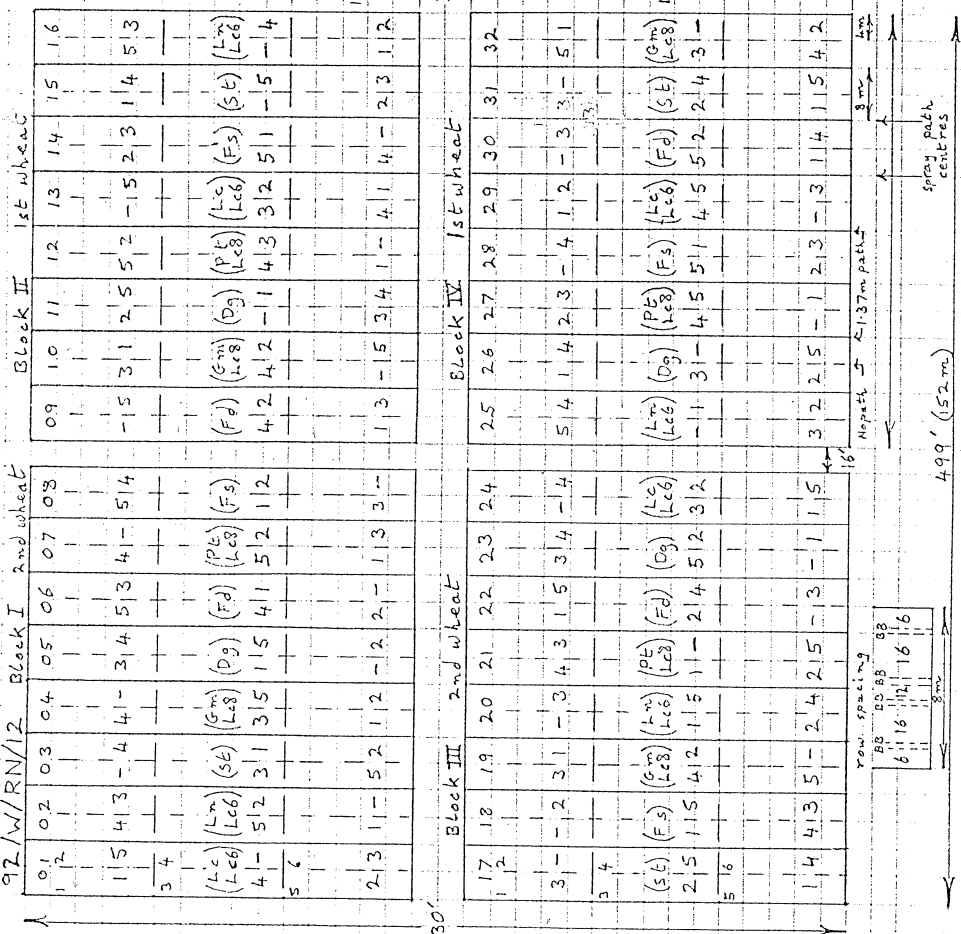
WOBURN
28th year STACKYARD B 1992
Sponsor: P. R. Poulton

ORGANIC MANURING EXPERIMENT

W. Wheat

92/W/RN/12

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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 year (Lc8/Grass) 1979-88 (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 Fertilizers

- (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 1981-86 (Blks II-IV) 7 (Blks I-III)
- Lays: (Lc) Clover/grass lay 1965-71 then (Lc6) 1981-86 (Blks I-III) 7 (Blks II-IV) (Ln) Grass lay with N - clover/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 @ 5FP in spring

VARIETY

- Marica sown @ 140 Kg/ha on 3 Oct 1991

SUBPLOT AREA

- 14 x 30 = 0.0039 ha.

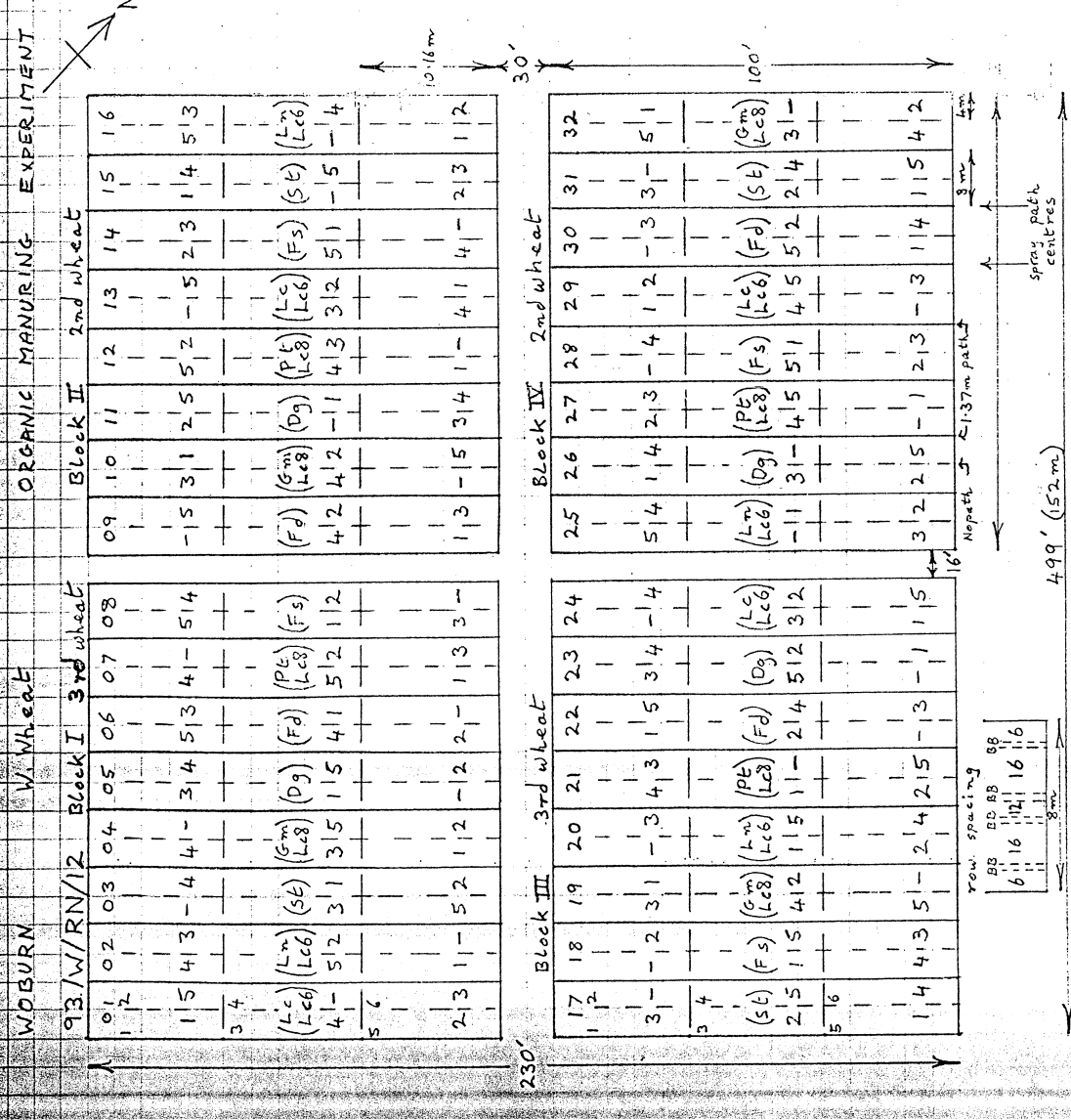
WOBURN 1993 204
 29th year STACKYARD B 1993
 Sponsor: P. R. Poulton

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

BASAL MANURE
 P & K (0:16:36) @ 556 Kg ha⁻¹
 Mn foliar spray @ SFP in spring

VARIETY
 Mercia sown @ 130 Kg ha⁻¹ on 7 Oct 1992
 SUB PLOT AREA 14' x 30' = 0.0039 ha.

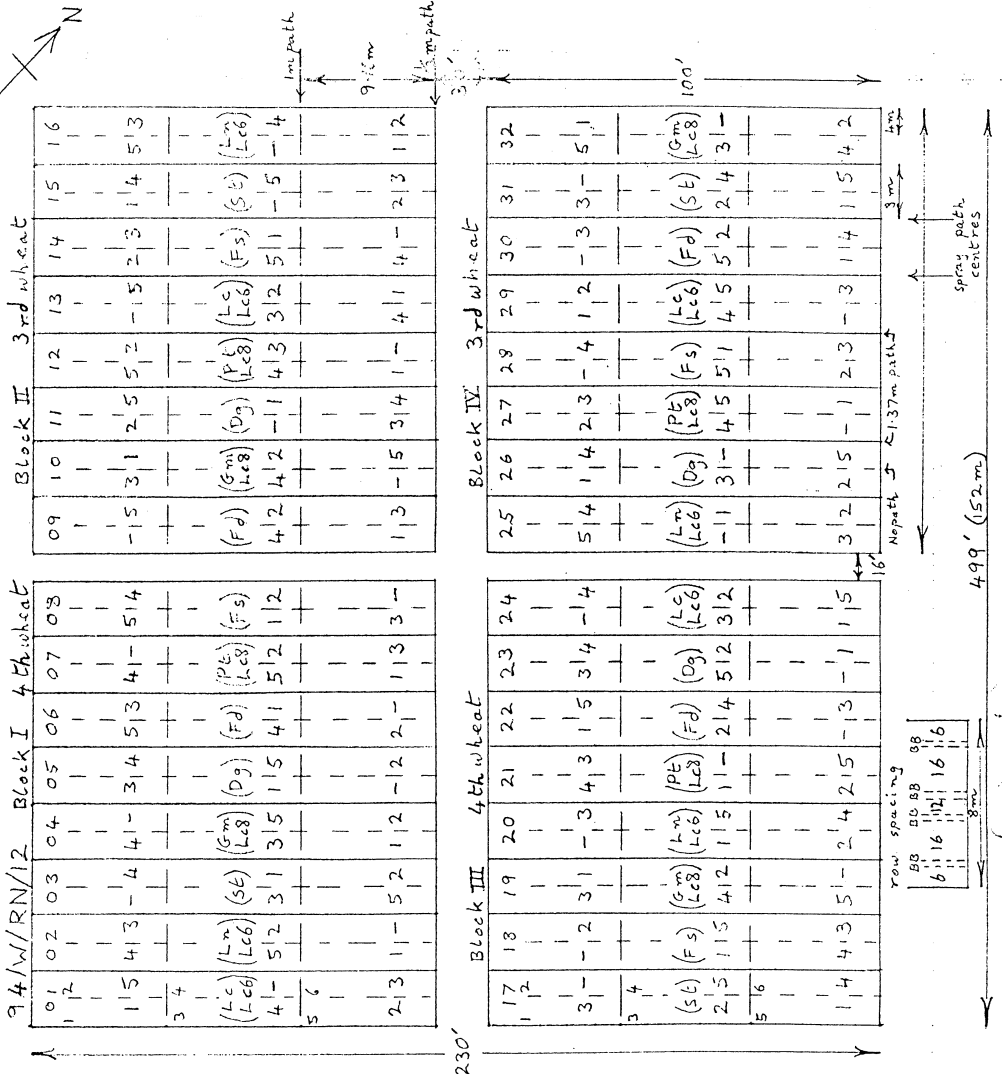


row spacing

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

WOBURN 30th year STACKYARD B 204
 Sponsor: P. R. Poulton

ORGANIC MANURING EXPERIMENT



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 & IV) 1980-87 (Blks II & IV)
- (Pt) Peat annually 1965-71 then (Lc8) 1979-86 (Blks I & IV) 1980-87 (Blks II & IV)

Residues of Fertilizers

- (Fd) PK Mg Equivalent to (Dg) rate, annually 1965-71 & 1981-86 (Blks I & IV) 7 (Blks II & IV)
- (Fs) K Mg Equivalent to straw with P annually 1965-71 then 1/2 Dg rate 1981-86 (Blks I & IV) 7 (Blks I & III)

- Legs: (Lc) Clover/grass ley 1965-71 then (Lc6) 1981-86 (Blks I & IV) 7 (Blks II & IV) - clover/grass ley
- (Ln) Grass ley with N

Subplot N Treatments Kg N ha⁻¹

- 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/m² on 16 Oct 1993

SUB PLOT AREA

$14' \times 30' = 0.37 \text{ ha.}$
 harvested area = $2m \times 9/16 = 0.00183 \text{ ha}$