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Collection of Plans for the Woburn Organic Manuring Experiment

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W/RN/12 - Woburn Organic Manuring 1966 - 1969

Rothamsted Research

Rothamsted Research (1966-1988) *W/RN/12 - Woburn Organic Manuring 1966 - 1969* ; Collection Of Plans For The Woburn Organic Manuring Experiment, pp 1 - 4

Woburn Organic Manuring Experiment

1966: Barley & Leys

STACKYARD 'B' 2nd year 1966
Sponsor: G.E.G. Mattingly.

WOM/ I

1	2	a3b	a4b	a5b	a6b	a7b	a8b
Lc	Lr	St	Gm	Dg	Fd	Pt	Fs
c	d	a	c	d	a	c	d
2	1	-	1	-	3	2	-
2	1	-	1	-	3	2	-

II

a9b	a10b	a11b	a12b	13	14b	a15b	16
Fd	Gm	Dg	Pt	Lc	Fs	St	Lr
c	d	c	d	c	d	c	d
3	2	1	3	2	1	-	2
3	2	1	3	2	1	-	2

III

a17b	a18b	a19b	a20b	a21b	a22b	a23b	24
St	Fs	Gm	Lr	Pt	Fd	Dg	Lc
c	d	a	c	d	a	c	d
-	1	3	2	-	1	3	-
-	1	3	2	-	1	3	-

IV

25	a26b	a27b	a28b	29	a30b	a31b	a32b
Lr	Dg	Pt	Fs	Lc	Fd	St	Gm
c	d	c	d	c	d	c	d
-	3	-	1	3	-	2	3
-	3	-	1	3	-	2	3

centre headland 16'

t W.Wheat failed.

TREATMENTS per acre

Organic manures.
Dg 20 tons FYM. (3t DM)
St 3 tons (DM) straw } Total nutrients balanced by
Pt 3 tons (DM) peat } PK Mg additions
Gm Green manure }
1965: Italian ryegrass. see Fs.
1966: Trefoil v/s in W.Wheat.

Fertilisers.

Fd PKMg equivalent to FYM. (approx
1.0 cwt P₂O₅ 3.0 cwt K₂O 0.4 cwt MgO)
Fs KMg equivalent to straw + P (approx
0.5 cwt P₂O₅ 1.0 cwt K₂O, 0.15 cwt MgO)

Nitrogen to Barley

-1, 2, 3 None, 0.2, 0.4, 0.6 cwt N
as 'Nitro-Chalk' 21.

Variety: Maris Badger.

Sown: Apr. 28

Leys.

Lc Mixture with clover
Lr Mixture without clover, 0.5 cwt N
in spring and for each cut.
Leys receive P, K, Mg manuring
annually for nutrients removed in
cut grass.

Sub-plot area: 14' x 48'6" = 0.0156 acres

Woburn Organic Manuring Experiment

1967: Potatoes & Leys

MOM

1	2	a3b	a4b	a5b	a6b	a7b	a8b
		- 3 3	1 3	-	- 1 3	-	3 2

a9b	a10b	a11b	a12b	13	a14b	a15b	16
3	1	-	1	-	2	-	-3

a17b	a18b	a19b	20	a21b	a22b	a23b	24
- 2	1 -	- 1		2	1 2	1 2 -	

Diagram of a 100' x 100' square plot divided into four 50' x 50' quadrants. The quadrants are labeled with letters and numbers: top-left (a25, a26b, a27b, a28b), top-right (a30b, a31b, a32b), bottom-left (d25, d26b, d27b, d28b), and bottom-right (d30b, d31b, d32b). The plot is oriented with North at the top. Dimensions are indicated: 100' on the left and right sides, and 50' on the top and bottom sides. A north arrow is in the top right corner.

centre headland 16' — 499' —

499-

Sub-plot area: $14' \times 47'6'' = 0.0153 \text{ acre.}$

Fertilisers

Fd PKMg equivalent to FYM
(High PKMg.)

FS K.Mg equivalent to straw with P.
(Low PKMg.)

Nitrogen to Potatoes (after barley)

-1,2,3 None, 0.4, 0.8, 1.2 wt N
as 'Nitro-Chalk' 21.

Basal nitrogen to potatoes
0.2 cwt N per acre

Variety: Majestic Planted:

Leys: sown: April 23 1965
 Lc Mixture with clover
 Ln Mixture without clover, 0.5 wt%N
 in spring and for each cut.
 Leys receive PKMg manuring annually
 for nutrients removed in cut grass.

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WOBURN Organic Manuring Experiment 1968 W. Wheat & Leys

STACKYARD B 4th year 1968
Sponsor: G.E.G. Mattingly.

WOM

I

1	2	3	4	5	6	7	8
Lc	Ln	St	Gm	Dg	Fd	Pt	Fs
		1	2	3	2	1	3
		1	2	3	2	1	3
		1	2	3	2	1	3
		1	2	3	2	1	3
		1	2	3	2	1	3
		1	2	3	2	1	3

II

9	10	11	12	13	14	15	16
Fd	Gm	Dg	Pt	Lc	Fs	St	Ln
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2

III

17	18	19	20	21	22	23	24
St	Fs	Gm	Ln	Pt	Fd	Dg	Lc
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2
3	1	2	3	2	1	3	2

IV

25	26	27	28	29	30	31	32
Ln	Dg	Pt	Fs	Lc	Fd	St	Gm
	3	1	2	3	2	1	3
	3	1	2	3	2	1	3
	3	1	2	3	2	1	3
	3	1	2	3	2	1	3
	3	1	2	3	2	1	3
	3	1	2	3	2	1	3

TREATMENTS, per acre

Organic Manures 1968.

Dg 10 tons FYM. (3 tons DM/annum on average)

St 3 tons (DM) Straw } Total nutrients

Pt 3 tons (DM) peat } balanced by

Gm Green manure } PKMg additions

1966: Trefoil

1968: Clover undersown in spring

Fertilisers

Fd PKMg equivalent to FYM.

(High PKMg.)

Fs KMg equivalent to straw with P.

(Low PKMg.)

Nitrogen to Winter Wheat (after potatoes)

-1, 2, 3 None, 0.4, 0.8, 1.2 cwt N

as 'Nitro-Chalk' 21.

Basal nitrogen to Winter Wheat

0.2 cwt N per acre

0.2 cwt N per acre

0.2 cwt N per acre

0.2 cwt N per acre

Variety: Cappelle Sown: Oct 25, 1967

seed rate: 190lb

Leys: Sown: April 23, 1965.

Lc Mixture with clover. Ln Mixture without

clover, 0.5 cwt N in spring & for each cut

Leys receive PKMg manuring annually for nutrients

removed in cut grass

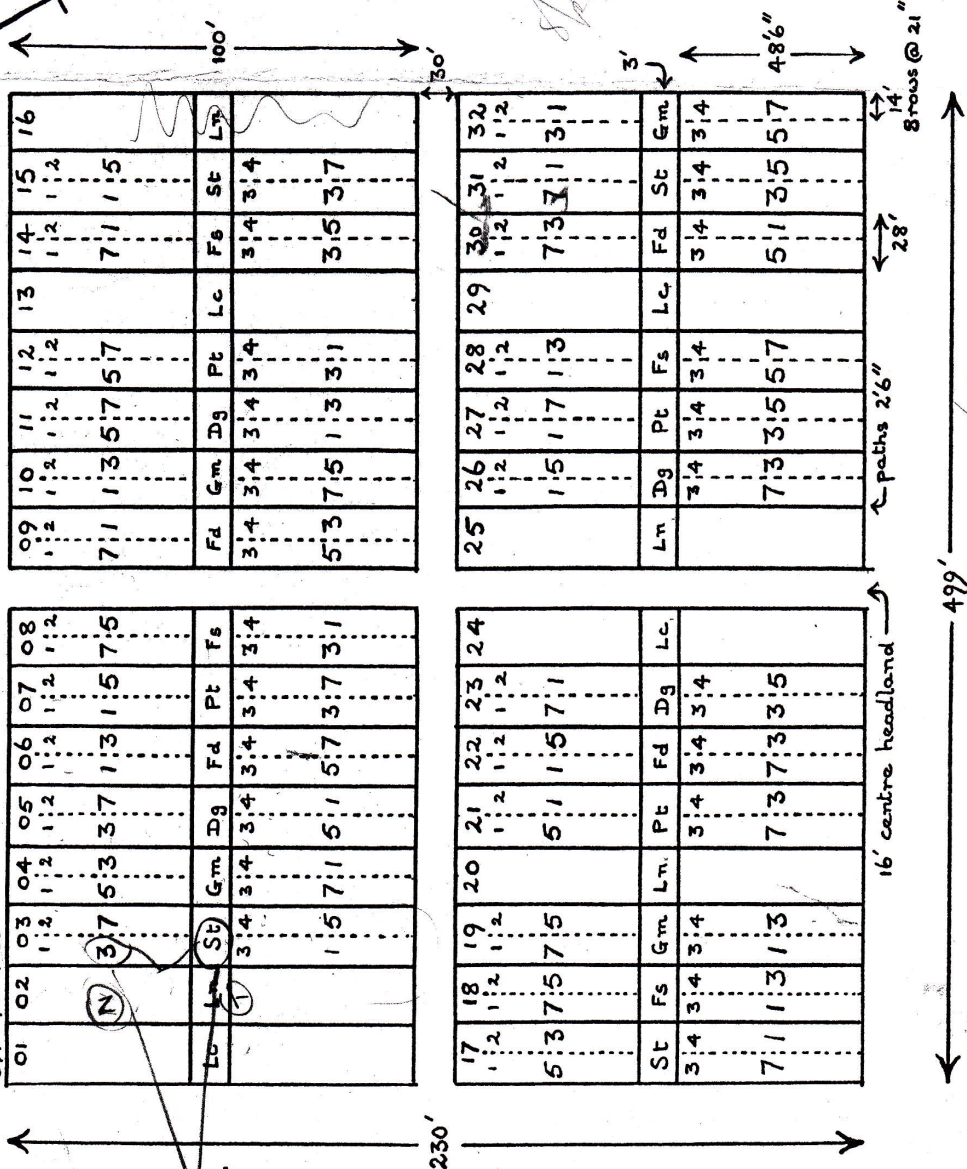
Sub-plot area: 14' x 48'6" = 0.0156 acre, harvested 9'4" x 48'6" = 0.0104 acre.

EN

STACKYARD 'B' 5th year 1969
Sponsor: G.E.G. Mattingly.

WOBURN ORGANIC MANURING EXPERIMENT
1969 Sugar Beet & Leys

69/W/RN/12



TREATMENTS per acre
Organic Manures 1969.
N Dg 20 tons FYM (3 tons DM/annum on average)
St 3 tons (DM) Straw } Total nutrients
Pt 3 tons (DM) Peat } balanced by
Gm Green manure } PKMg additions
1968: clover (late flowering red)

Fertilisers
Fd PK Mg equivalent to FYM.
(High PKMg)
Fs K Mg equivalent to straw with P.
(Low PKMg)

Nitrogen to Sugar Beet (after W. Wheat)
1, 3, 5, 7 0.2, 0.6, 1.0, 1.4 cut N as Nitro-chalk 2.1

Variety: Klein E Sown: Apr 11.

Leys: Sown: Apr 23, 1965
Lc: Mixture with clover.
Ln: Mixture without clover, 0.5 cut N in spring and for each cut. Leys receive PKMg manuring annually for nutrients removed in cut grass. ✓

Sub plot area: 14' x 48 1/2" = 0.0156 acre.