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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

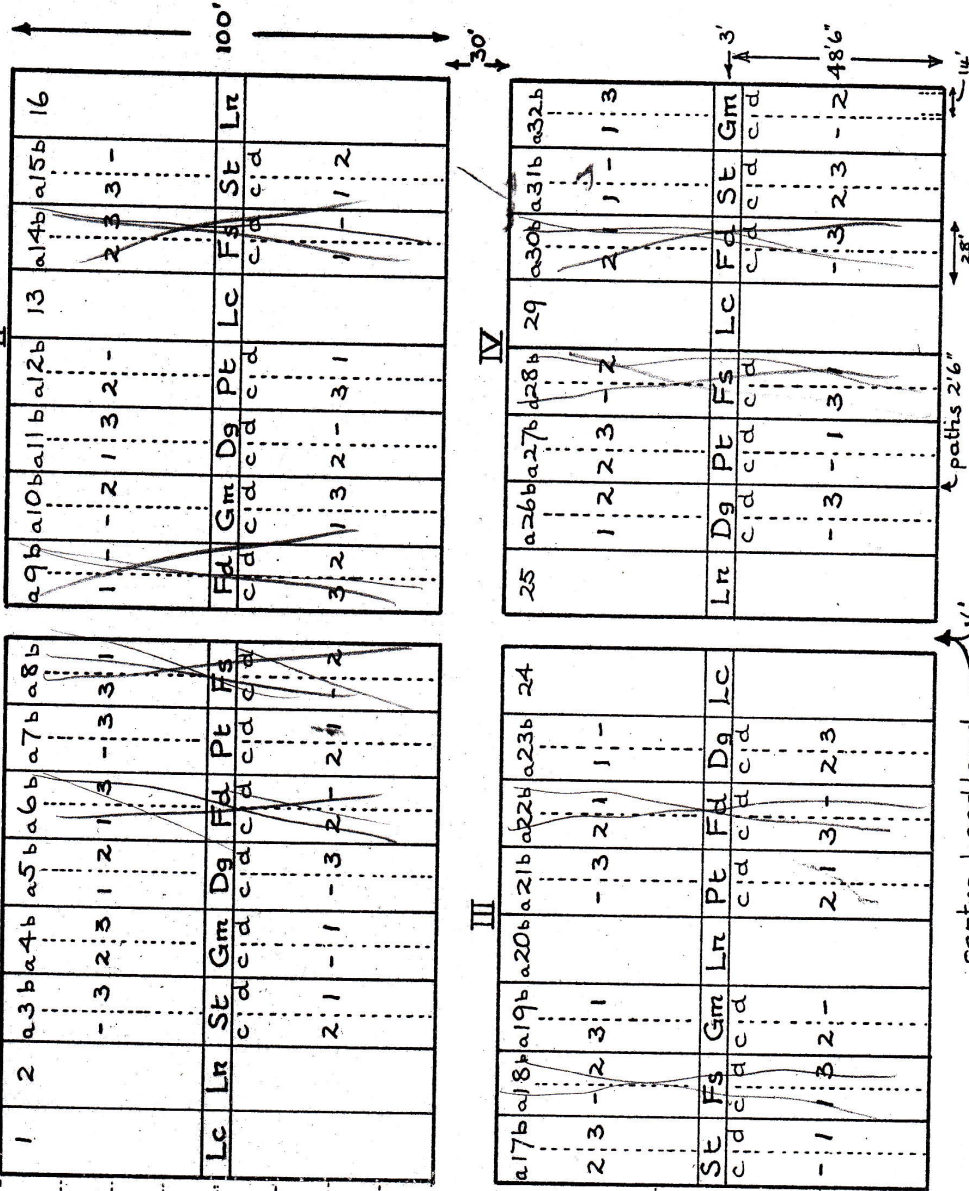
Rothamsted Research

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.



TREATMENTS per acre
Organic manures.
Dg 20 tons FYM. (3t. DM)
St 3 tons (DM) straw } Total nutrients
Pt 3 tons (DM) peat } balanced by
Gm Green manure } PK Mg additions
1965: Italian ryegrass. see Fs.
1966: Trefoil 1/5 in W. wheat.

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

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

II

16	a15b	13	a12b	10	a10b	9	a9b
-	3	-	2	1	3	1	1
St	Fd	Lc	Pt	Dg	Gm	Fd	Lr
c	d	c	d	c	d	c	d
1.2	1.1	3.1	3.1	3.2	3.2	3.2	3.2

IV

32b	a31b	29	a28b	27b	a26b	25	a25b
-	3	-	2	1	3	1	1
Gm	Fd	Lc	Fs	Pt	Dg	Lr	Lr
c	d	c	d	c	d	c	d
2.2	2.3	-	1.3	-	3	-	-

I

8b	a7b	a6b	a5b	4b	a3b	2	a1b
-	3	1	2	3	2	3	2
Fs	Pt	Fd	Dg	Gm	St	Lr	Lc
c	d	c	d	c	d	c	d
2.2	2.4	2.1	3.2	3.1	2.1	2.1	2.1

III

24	a23b	a21b	a20b	19b	a18b	17b	a17b
-	1	1	-	3	2	3	2
Lc	Dg	Fd	Pt	Lr	Gm	Fs	St
c	d	c	d	c	d	c	d
2.3	2.3	2.1	2.1	2.1	3.2	3.1	2.3

centre headland 16'
499'
t W. Wheat failed.

Woburn Organic Manuring Experiment
1968 W. Wheat & Leys

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

WOM

I

1	a3b	a4b	a5b	a6b	a7b	a8b
	0 3	3	1	1	1	3
	2	3	2	1	3	-
Lc	Ln	St	Gm	Dg	Fd	Fs
		c d	c d	c d	c d	c d
		1	2	2	3	2
		1	3	2	2	1

II

a9b	a10b	a11b	a12b	a13b	a14b	a15b	a16b
-	2	1	2	1	2	-	1
-	2	1	2	1	3	-	1
Fd	Gm	Dg	Pt	Lc	Fs	St	Ln
c d	c d	c d	c d		c d	c d	
3	1	3	2	1	3	1	3

III

a17b	a18b	a19b	a20b	a21b	a22b	a23b	a24b
3	1	2	1	2	3	1	3
3	1	2	1	2	3	1	3
St	Fs	Gm	Ln	Pt	Fd	Dg	Lc
c d	c d	c d		c d	c d	c d	
-	2	1	-	1	2	3	2

IV

a25b	a26b	a27b	a28b	a29b	a30b	a31b	a32b
-	1	2	1	3	2	1	3
-	1	2	1	3	2	1	3
Ln	Dg	Pt	Fs	Lc	Fd	St	Gm
	c d	c d	c d		c d	c d	c d
	2	3	1	3	1	2	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 under sown in spring

Fertilisers

Fd PKMg equivalent to FYM.
(High PKMg.)
Fs K Mg 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

Variety: Cappelle Sown: Oct 25, 1967

seed rate: 190lb

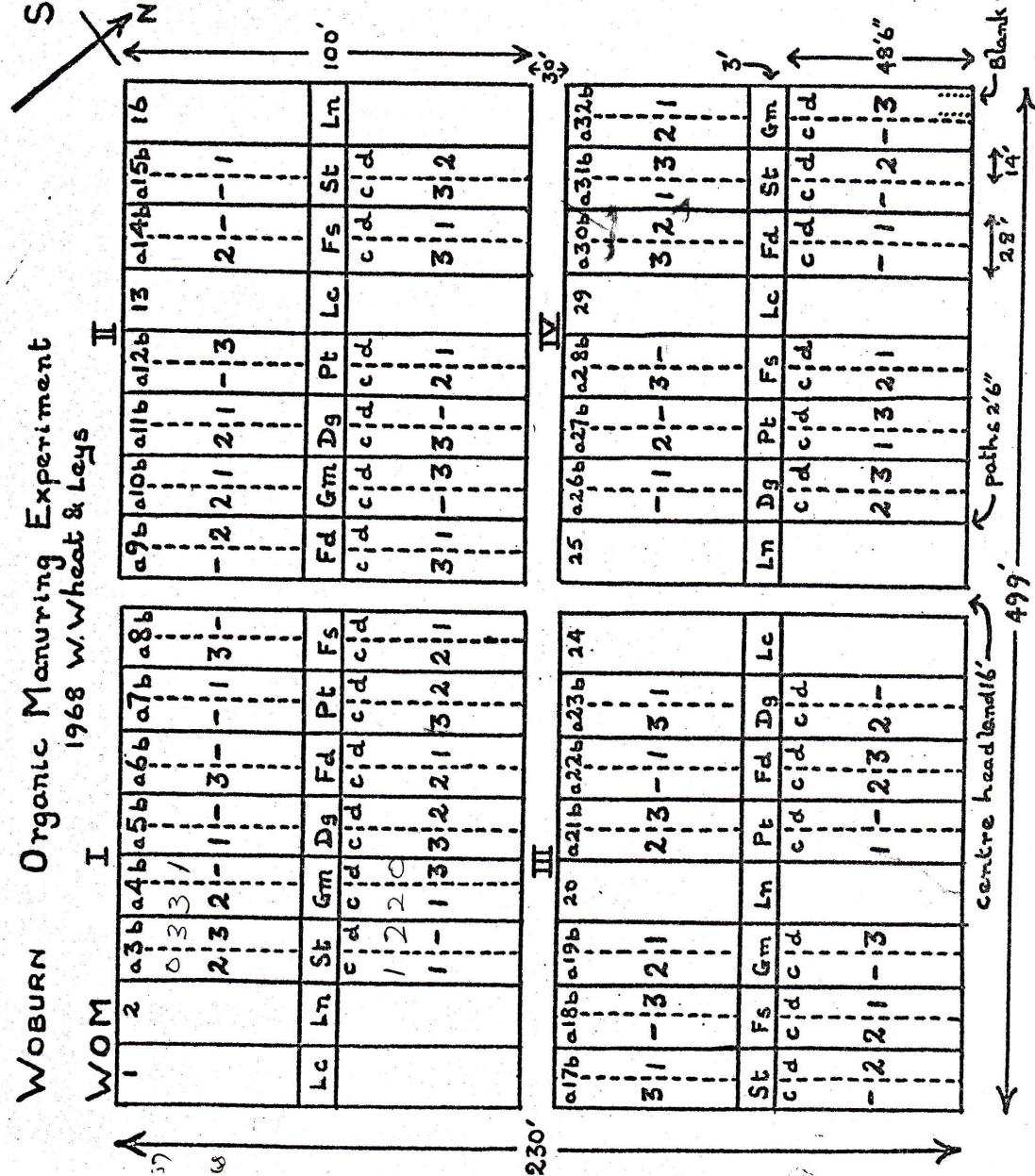
Leys: Sown: April 23, 1965.

Lc Mixture with clover. Ln Mixture without

clover, 0.5 cwt N in spring & for each cut

Leys receive PKMg manuring annually for nutrients

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



EN

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

WOBURN ORGANIC MANURING EXPERIMENT
1969 Sugar Beet & Leys

69/W/RN/12

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2
	(N) 3:7	5:3	5:3	3:7	1:3	1:5	7:5	7:1	1:3	5:7	5:7		7:1	1:5	
Lm	Lm	Sg	Gm	Dg	Fd	Pt	Fs	Fd	Gm	Dg	Pt	Lc	Fs	St	Lm
3:4	3:4	3:4	3:4	3:4	3:4	3:4	3:4	3:4	3:4	3:4	3:4		3:4	3:4	3:4
	1:5	7:1	5:1	5:7	3:7	3:1		5:3	7:5	1:3	3:1		3:5	3:7	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2	1:2
5:3	7:5	7:5		5:1	1:5	7:1		1:5	1:7	1:3		7:3	1:1	3:1	
St	Fs	Gm	Lm	Pt	Fd	Dg	Lc	Lm	Dg	Pt	Fs	Lc	Fd	St	Gm
3:4	3:4	3:4		3:4	3:4	3:4		3:4	3:4	3:4	3:4		3:4	3:4	3:4
7:1	1:3	1:3		7:3	7:3	3:5		7:3	3:5	5:7		5:1	3:5	5:7	

TREATMENTS per acre
Organic Manures 1969.

20 tons FYM. (3 tons DM/annum on average)
3 tons (DM) Straw } Total nutrients
3 tons (DM) Peat } balanced by
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.

Lm: 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' 6" = 0.0156 acre.

