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RESEARCH

Collection of Plans for the Woburn Organic Manuring Experiment

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

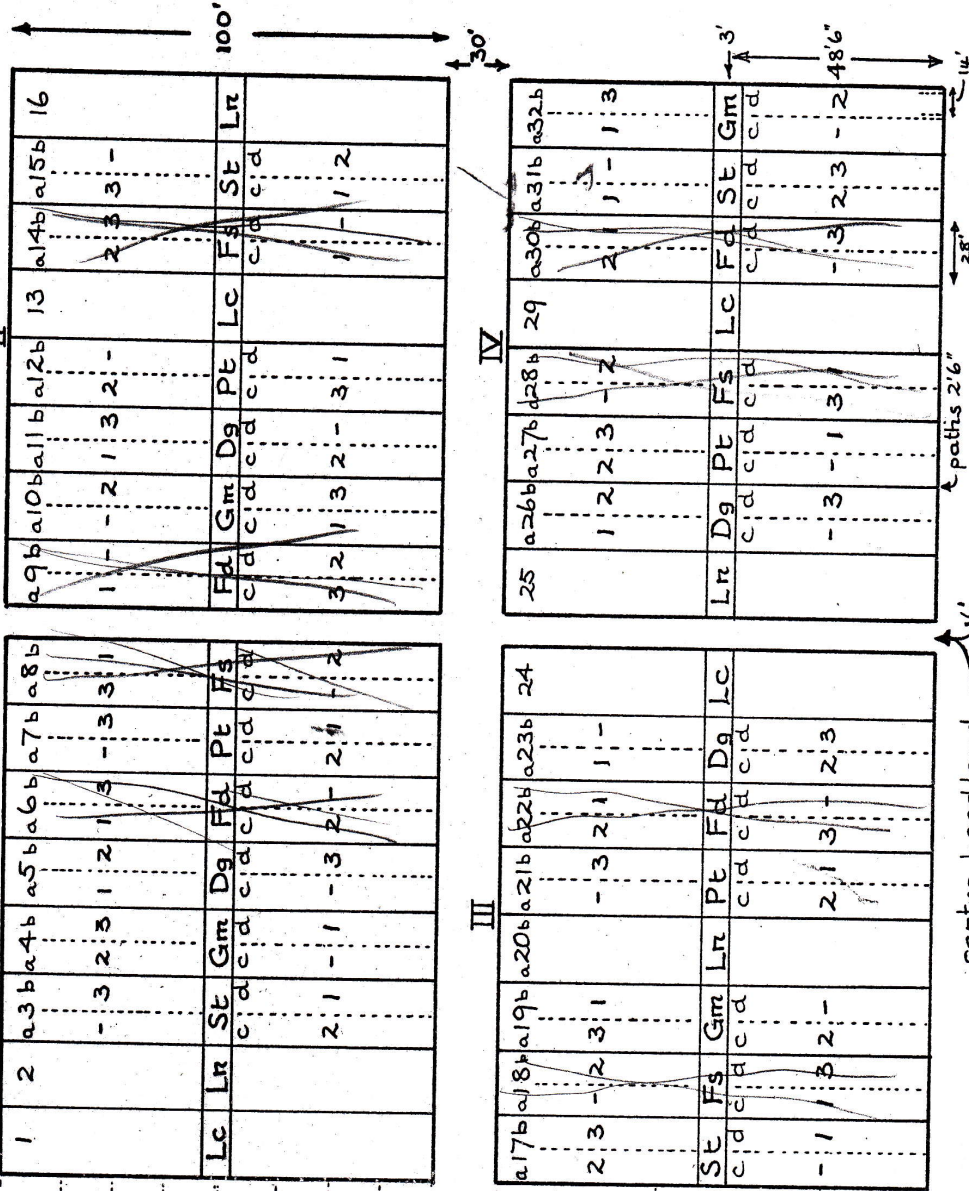
Rothamsted Research

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 balanced by PK Mg additions
- Pt 3 tons (DM) peat } 1965: Italian ryegrass. see Fs.
- Gm Green manure } 1966: Trefoil 1/5 in W. wheat.

Fertilisers.

- Fd PK Mg equivalent to FYM. (approx 1.0 cwt P₂O₅ 3.0 cwt K₂O 0.4 cwt Mg O)
- Fs K Mg 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

WOM/

I

1	2	3	4	5	6	7	8
Lc	Lr	St	Gm	Dg	Fd	Pt	Fs
a17b	a18b	a19b	a20b	a21b	a22b	a23b	a24b
2	3	1	-	3	1	1	-
1	3	2	1	1	1	1	1

II

9	10	11	12	13	14	15	16
Fd	Gm	Dg	Pt	Lc	Fd	St	Lr
a25b	a26b	a27b	a28b	a29b	a30b	a31b	a32b
3	2	1	3	2	1	1	2
1	2	3	2	1	1	1	2

III

17	18	19	20	21	22	23	24
St	Fs	Gm	Lr	Pt	Fd	Dg	Lc
a17b	a18b	a19b	a20b	a21b	a22b	a23b	a24b
2	3	1	-	3	1	1	-
1	3	2	1	1	1	1	1

IV

25	26	27	28	29	30	31	32
Lr	Dg	Pt	Fs	Lc	Fd	St	Gm
a25b	a26b	a27b	a28b	a29b	a30b	a31b	a32b
1	2	3	2	1	1	1	3
1	2	3	2	1	1	1	3

← 16' cartway headland
← 499' total length
← t W. Wheat failed.

STACKYARD 'B' 3rd year 1967 104
 Sponsor: G.E.G. Mattingly

Woburn Organic Manuring Experiment

WOM I 1967: Potatoes & Leys

1	2	a3	a4	a5	a6	a7	a8
		-3	3	1	3	-	3
Lc	Ln	St	Gm	Dg	Fd	Pt	Fs
		c	d	e	d	c	d
		1	2	2	1	2	1

II

a9	a10	a11	a12	13	16
3	1	-	-	1	-
Fd	Gm	Dg	Pt	Lc	Ln
c	a	d	e	d	c
2	-	3	2	3	2

III

a17	a18	a19	20	a21	a22	a23	24
-2	1	-	1	2	1	2	-
St	Fs	Gm	Lr	Pt	Fd	Dg	Lc
c	d	e	d	c	d	e	d
1	3	3	2	2	3	3	1

IV

25	a26	a27	a28	29	a30	a31	a32
	1	2	-	2	3	1	2
Lr	Dg	Pt	Fs	Lc	Fd	St	Gm
c	d	e	d	c	d	e	d
	3	-	1	3	1	-	1

TREATMENTS, per acre
 Organic Manures

- Dg 20 tons FYM (3 tons DM)
- St 3 tons (DM) straw } Total nutrients balanced by PKMg additions
- Pt 3 tons (DM) peat
- Gm Green manure 1966: Trefoil.

Fertilisers

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

Nitrogen to Potatoes (after barley)

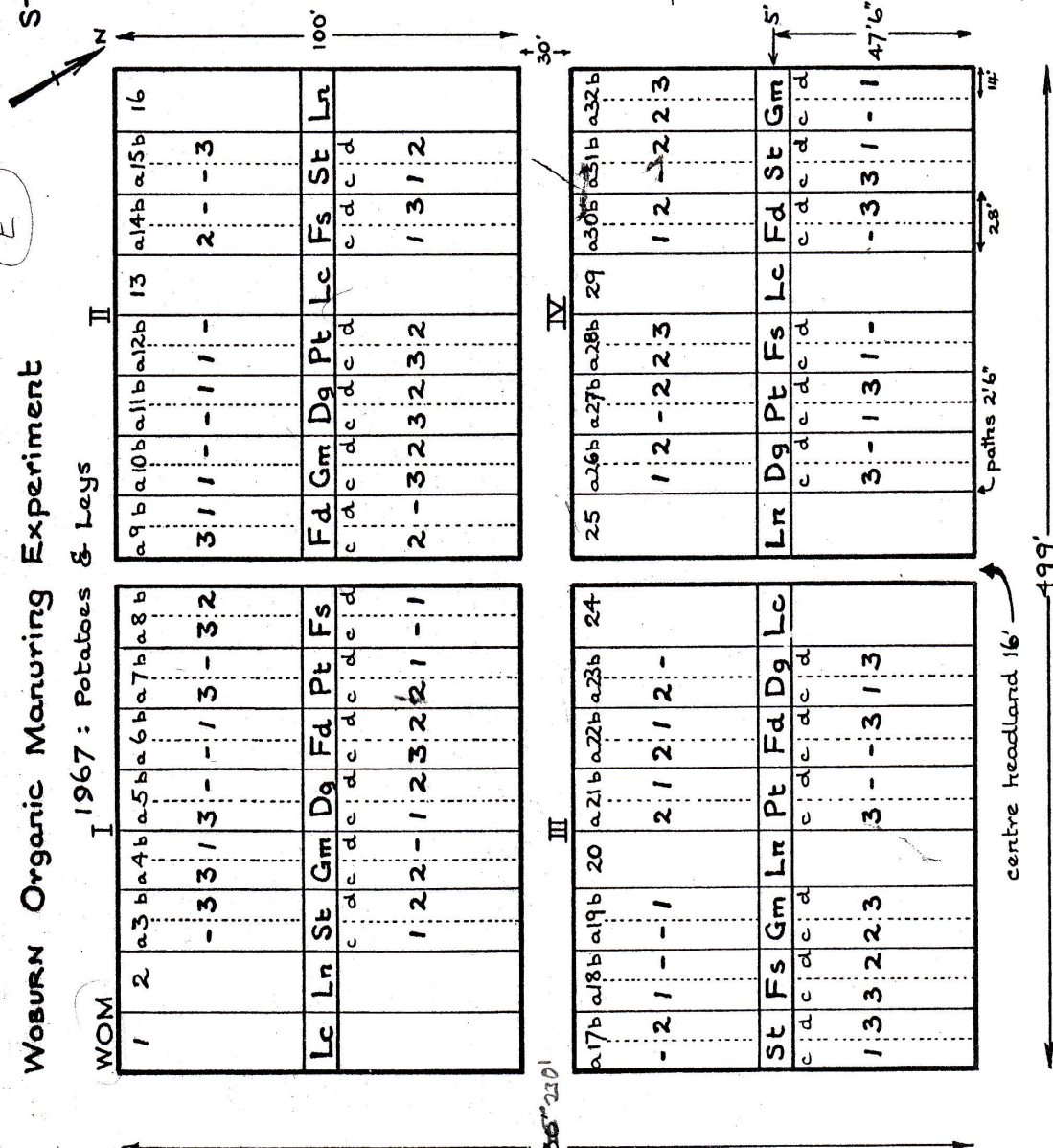
- 1, 2, 3 None 0.4, 0.8, 1.2 cwt N as 'Nitro-Chalk' 21.

Basal nitrogen to potatoes
 0.2 cwt N per acre

Variety: Majestic Planted:

- Leys: Lc Sown: April 23 1965
 Lr Mixture with clover
 in spring and for each cut.
 Leys receive PKMg manuring annually for nutrients removed in cut grass.

Sub-plot area: 14' x 47'6" = 0.0153 acre.



EN

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

WOUBURN 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
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.

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

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.

