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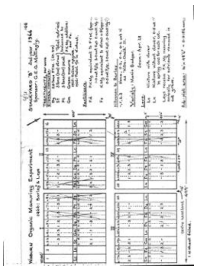
Collection of Plans for the Woburn Organic Manuring Experiment



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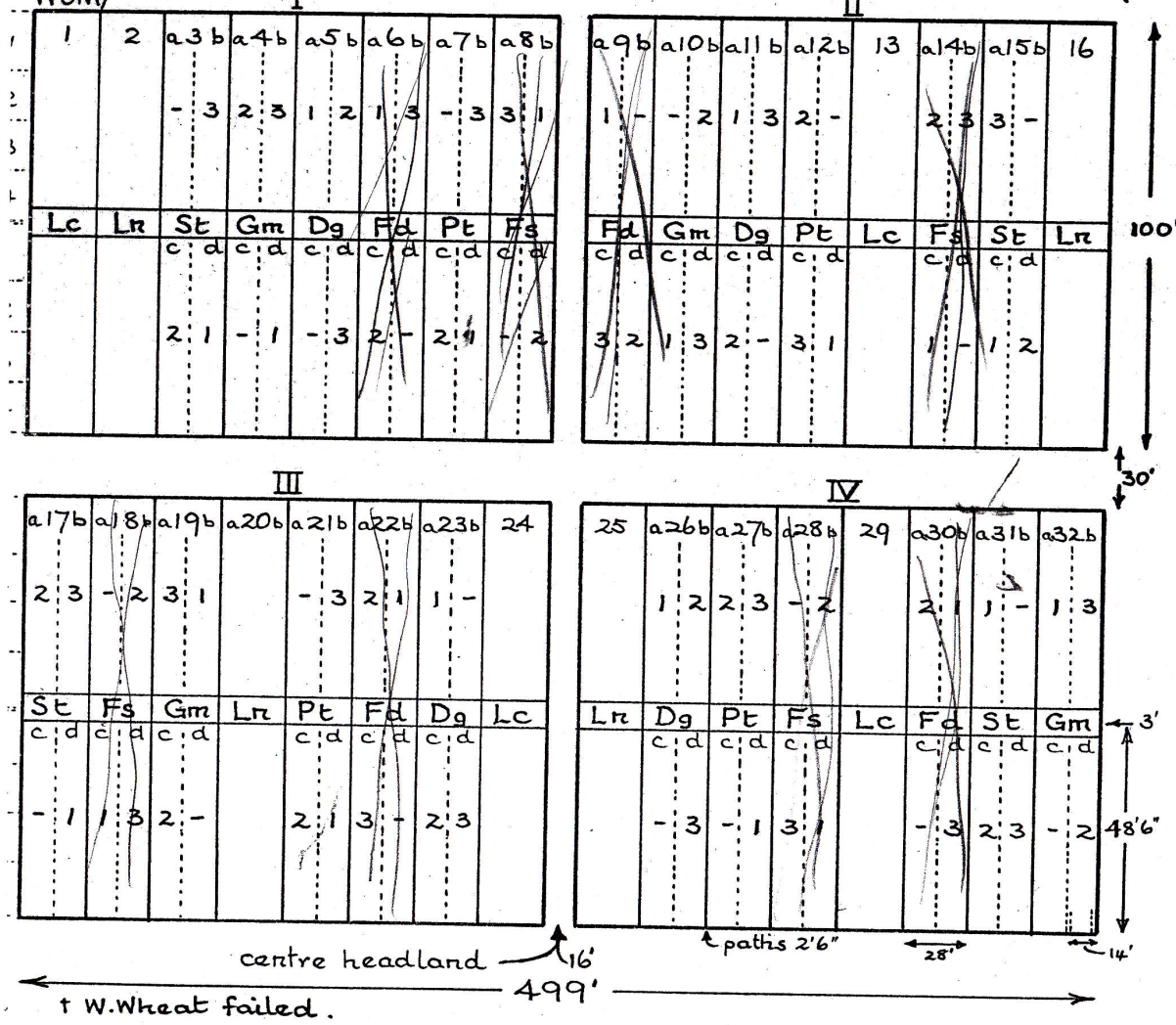
Rothamsted Research

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

WOM/



† W.Wheat failed.

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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 see Fs.
Pt	3 tons (DM) peat	
Gm	Green manure	

1965: Italian ryegrass.
1966: Trefoil v/s in W.Wheat.

Fertilisers.

Fd — PKMg equivalent to FYM. (approx 1·0 cwt P_2O_5 3·0 cwt K_2O 0·4 cwt MgO)

Fs — KMg equivalent to straw + P (approx 0·5 cwt P_2O_5, 1·0 cwt K_2O, 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

Ln — 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

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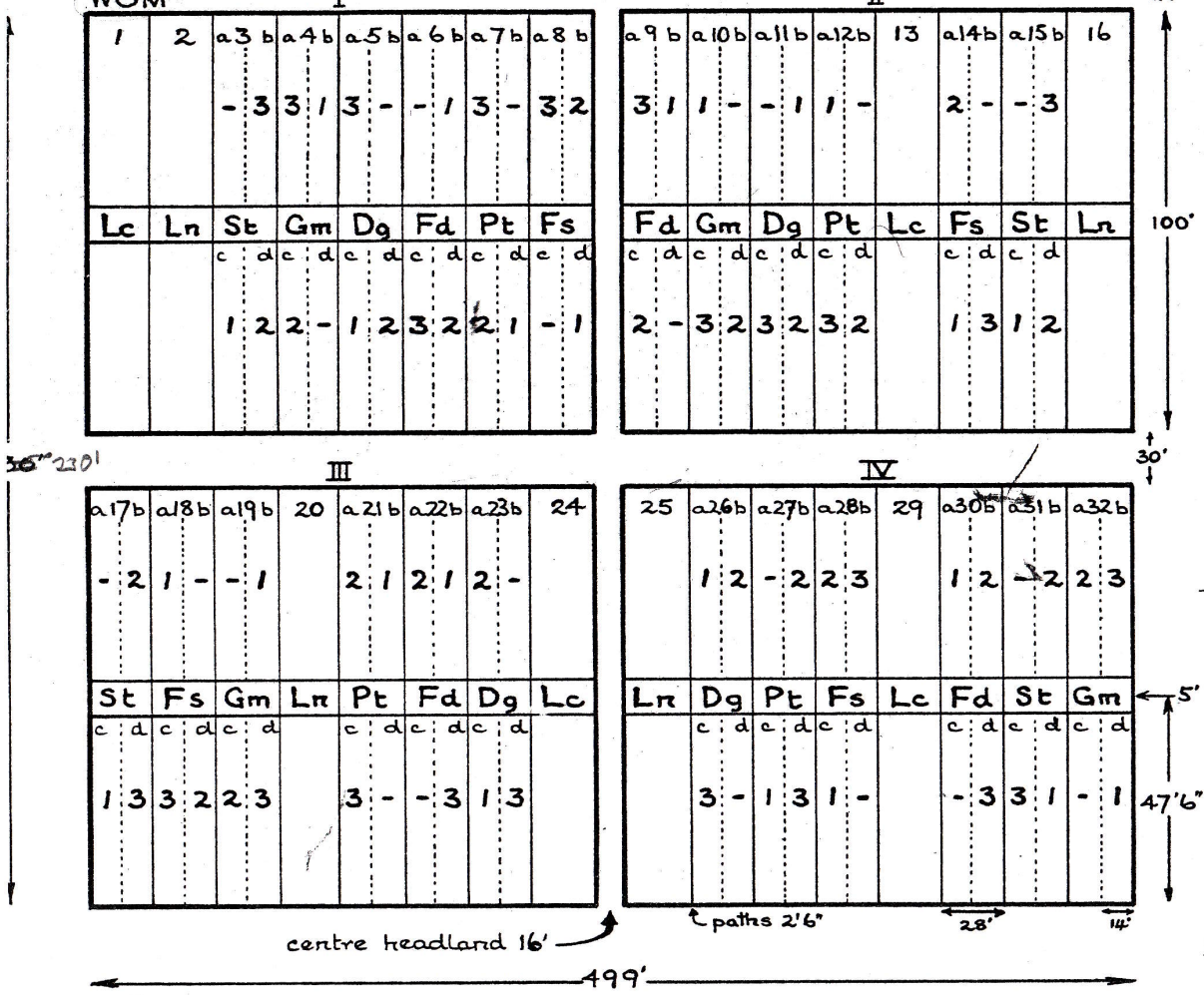
WOBURN Organic Manuring Experiment

1967 : Potatoes & Leys

WOM



STACKYARD 'B' 3rd year 1967

Sponsor : G.E.G. Mattingly

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: Sown: April 23 1965

Lc Mixture with clover

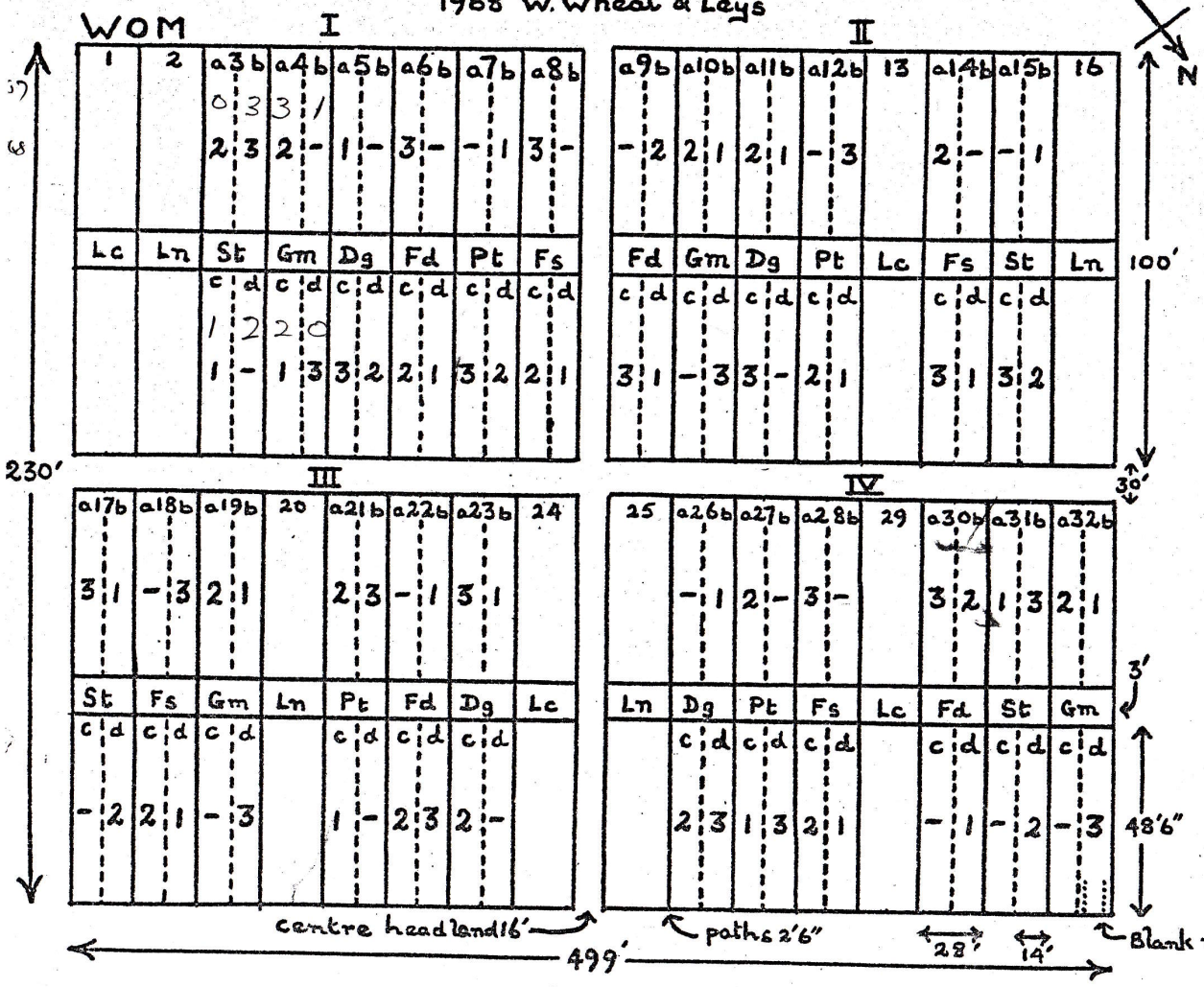
Ln Mixture without clover, 0.5 cwt N in spring and for each cut.

Leys receive PKMg manuring annually for nutrients removed in cut grass.

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

WOBURN Organic Manuring Experiment
1968 W. Wheat & Leys

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



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 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

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'x48'6" = 0·0156 acre, harvested 9'4"x48'6" = 0·0104 acre.

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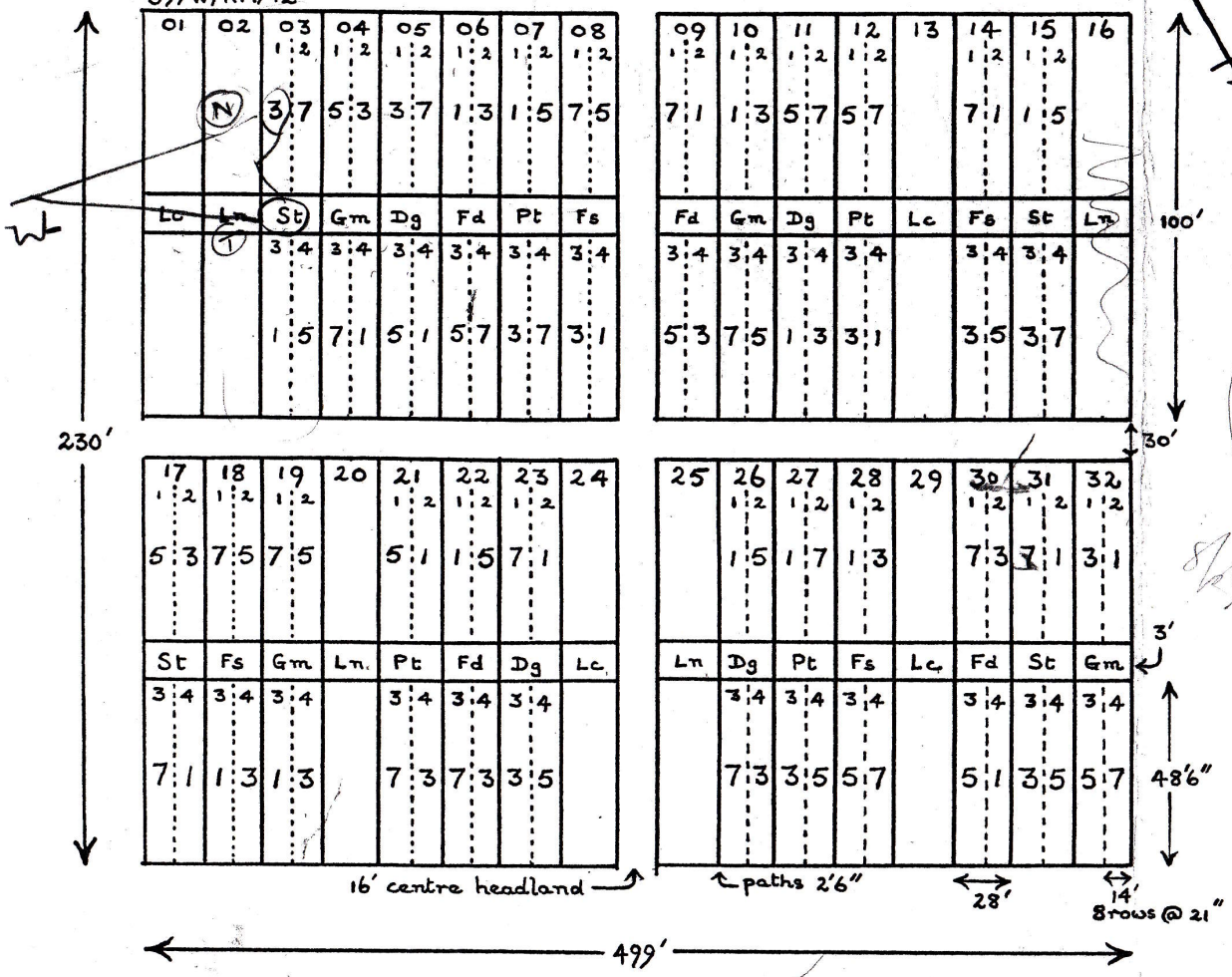
WOBURN ORGANIC MANURING EXPERIMENT

1969 Sugar Beet & Leys

69/W/RN/12



STACKYARD 'B' 5th year 1969

Sponsor : G.E.G. Mattingly.

TREATMENTS per acre

Organic Manures 1969.

Dg	20 tons F.Y.M. (3 tons DM/annum on average	
St	3 tons (DM) Straw	Total nutrients balanced by PKMg additions
Pt	3 tons (DM) Peat	
Gm	Green manure	
	1968 : clover (Late flowering red)	

Fertilisers

Fd PKMg equivalent to F.Y.M. (High PKMg)

Fs KMg 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 cwt N as 'Nitro-chalk'

Variety : Klein E Sown: Apr 11.

Leys: Sown : Apr 23, 1965

Lc: Mixture with clover.

Ln: Mixture without clover, 0·5 cwt 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.

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