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Collection of Plans for the Woburn Organic Manuring Experiment

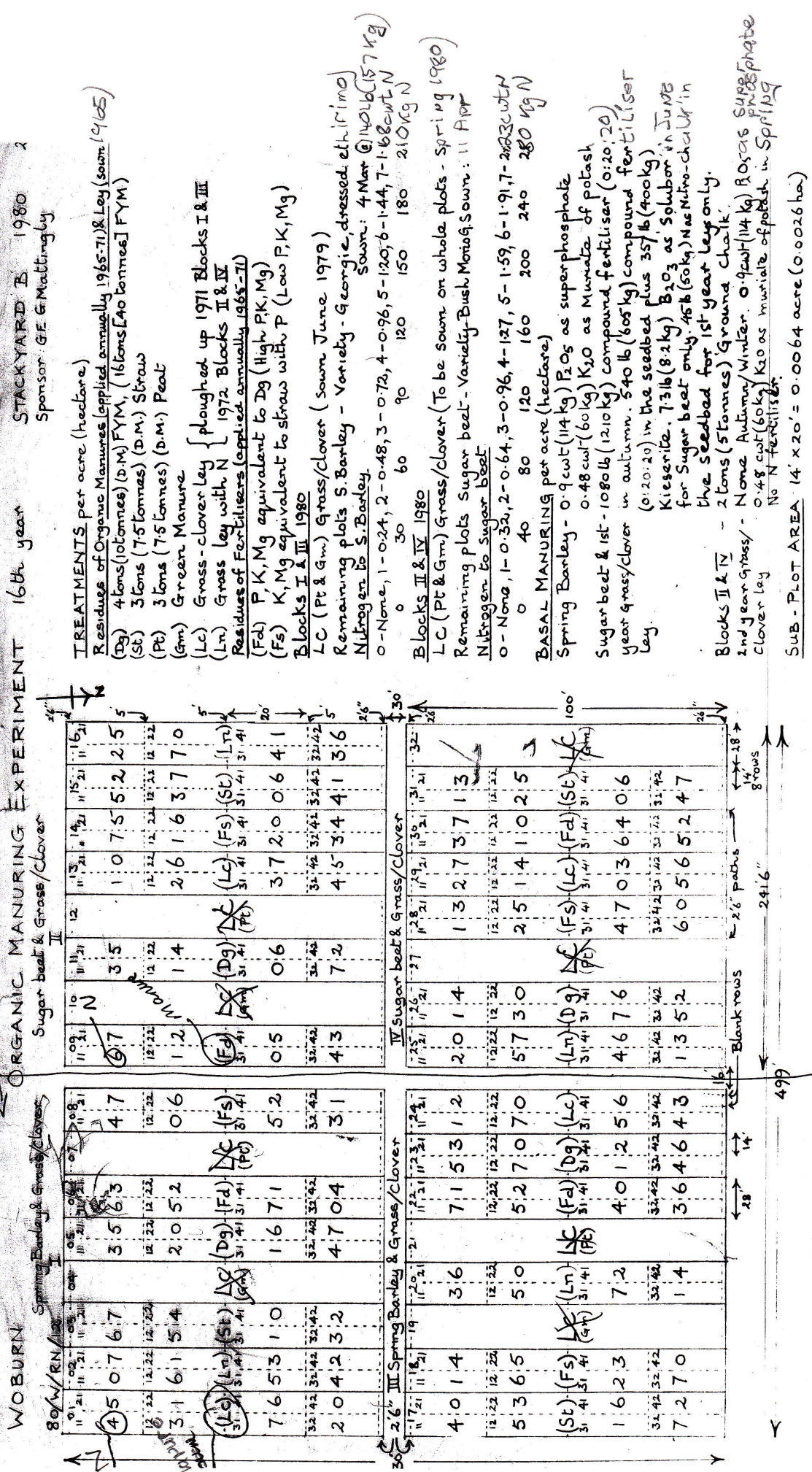
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W/RN/12 - Woburn Organic Manuring 1980 - 1984

Rothamsted Research

Rothamsted Research (1966-1988) *W/RN/12 - Woburn Organic Manuring 1980 - 1984* ; Collection Of Plans For The Woburn Organic Manuring Experiment, pp 15 - 19



12.2.81. NOTE CHANGE TO SPRING BEANS

WOBURN

Spring Beans & Grass/Clover
81/W/RN/12

ORGANIC MANURING EXPERIMENT
Barley & Grass/Clover

17th year

STACKYARD B, 1981
Sponsor: G.E. & Mattingly

01	02	03	04	05	06	07	08
LC1 (Lc)	LC1 (Lc)	BE	BE	BE	BE	BE	BE
LC1 (Lc)	LC1 (Lc)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)
LC1 (Lc)	LC1 (Lc)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)
LC1 (Lc)	LC1 (Lc)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)
LC1 (Lc)	LC1 (Lc)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)
LC1 (Lc)	LC1 (Lc)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)
LC1 (Lc)	LC1 (Lc)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)
LC1 (Lc)	LC1 (Lc)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)
LC1 (Lc)	LC1 (Lc)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)	LC3 (Gm)

09	10	11	12	13	14	15	16
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)

17	18	19	20	21	22	23	24
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)
LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)	LC1 (Lc)

TREATMENTS per hectare (acre)
Organic Manures 1981 Blocks I & II
Dg 50 tonnes (20 tons) FYM (No P, K, Mg as fertiliser)
St 75 tonnes (30 tons) Straw
Lc (Pt & Gm) Grass/clover ley (sown June 1979)
Lc (Lc & Ln) Grass/clover ley (to be sown Spring 1981)
Fertilisers
Fd 2000 kg (1784 lb) of (0:14:28), 400 kg (357 lb) Kieserite.
approximately equivalent to PKMg in Dg.
St 700 kg (624 lb) of (0:20:20), 200 kg (178 lb) Kieserite.
Fs 1000 kg (892 lb) of (0:14:28), 200 kg (178 lb) Kieserite, 1/2 rate
of Fd plots * One half before ploughing & one half after ploughing
Plots not in ley Spring Beans BE Variety: Minden Sown at 19526
BLOCKS II & IV Date: 6 April (219 kg)
Lc (Pt & Gm) Grass/clover ley (sown Spring 1980)
Remaining plots s. Barley - Variety: George sown at 1406 (157 kg)
Nitrogen to St. Barley Date: 27 Feb
0 - None, 1 - 0.48, 3 - 0.72, 4 - 0.96, 5 - 1.20, 6 - 1.44, 7 - 1.68 cwtN/acre
0 30 60 90 120 150 180 210 kg N/ha
Residues of Organic Manures (applied annually 1965-71) & Ley (sown 1965)
(Dg) 40 tonnes (16 tons) FYM, (St) 75 tonnes (30 tons) (DM) Straw
(Pt) 75 tonnes (30 tons) (DM) Peat, (Gm) Green Manure
(Lc) Grass/clover ley { Ploughed up 1971 Blocks I & II
(Ln) Grass ley with N 1972 Blocks II & IV
Residues of Fertilisers (applied annually 1965-71)
(Fd) P, K, Mg equivalent to Dg (High P, K, Mg)
(Fs) K, Mg equivalent to Straw with P (Low P, K, Mg)
STANDARD MANURING per hectare (acre)
ALL blocks
Lc 1000 kg (892 lb) of (0:14:28), 200 kg (178 lb) Kieserite to be
applied in autumn/winter
50 kg (45 lb) N as Nitro-chalk in the seedbed for 1st year leys only
Spring Barley Block II & IV
114 kg (102 lb) P₂O₅ as Superphosphate, 60 kg (54 lb) as Muriate
of potash applied in autumn.
PLOT AREA 28' x 100' = 0.0643 acre (0.0260 ha)
Sub-plot area 14' x 20' = 0.0064 acre (0.0026 ha)

WOBURN
82/W/RN/12

ORGANIC MANURING EXPERIMENT
Winter Wheat & Grass/Clover
Winter Beans & Grass/Clover

18th year
204
Sponsor: ~~George~~ Mattingly A. E. JOHNS

01	02	03	04	05	06	07	08
LC2 (Ln)	LC2 (Ln)	St (Ln)	LC4 (Ln)	Dg (Ln)	Fd (Ln)	LC4 (Ln)	Fs (Ln)
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W

09	10	11	12	13	14	15	16
LC3 (Ln)	LC3 (Ln)	Dg (Ln)	LC3 (Ln)	LC1 (Ln)	Fs (Ln)	BE	LC1 (Ln)
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W

TREATMENTS per hectare (acre)
Organic Manures
Dg 50 tonnes (20 tons) FYM (No P, K, or Mg as fertiliser)
St 7.5 tonnes (3 tons) Straw
LC4, LC3 (Pt & Gm) grass/clover ley { Blocks I & II sown June 1979
Blocks II & IV sown April 1980
LC2, LC1 (Ln & Ln) grass/clover ley { Blocks I & II sown Spring 1981
Blocks II & IV sown Spring 1982
Fertilisers
Fd 2000 kg (1784 lb) of (0:14:28), 400 kg (357 lb) Kieserite
approximately equivalent to P K Mg in Dg
St 700 kg (624 lb) of (0:20:20), 200 kg (178 lb) Kieserite
Fs 1000 kg (892 lb) of (0:14:28), 200 kg (178 lb) Kieserite, 1/2 rate of Fd P lots
* One half before ploughing & one half after ploughing.
Blocks I & II (Plots not in ley)
W Winter wheat Variety: Avalon sown at 170 lb (190 kg) Date 10 Nov
Blocks II & IV (Plots not in ley)
BE Winter beans Variety: Throws MS sown at 220 lb (247 kg) Date 10 Nov
Residues of Organic Manures (applied annually 1965-71) & Ley (sown 1965)
(Dg) 40 tonnes (16 tons) FYM (St) 7.5 tonnes (3 tons) (DM) Straw
(Pt) 7.5 tonnes (3 tons) (DM) Peat (Gm) Green Manure
(Ln) Grass/clover ley { Ploughed up 1971 Blocks I & II,
(Ln) Grass ley with N 1972 Block II & IV
Residues of Fertilisers (applied annually 1965-71)
(Fd) P, K, Mg equivalent to Dg (High P, K, Mg)
(Fs) K, Mg equivalent to Straw with P (Low P, K, Mg)
STANDARD MANURING per hectare (acre)
ALL blocks LC 1000 kg (892 lb) of (0:14:28), 200 kg (178 lb) Kieserite
to be applied in autumn/winter
1st year ley only - 50 kg (45 lb) N as 'Nitro-chalk' in the seedbed
W. Wheat. Blocks I & II 150 kg (134 lb) N as 'Nitro-chalk' in spring

PLOT AREA
28' x 100' = 0.0643 acre (0.0260 ha)
Harvested W. Wheat - Eastern strip of each plot 1982
2.75 m x 100' = 0.0207 acre (0.0084 ha)
W. Beans combine width x 100

