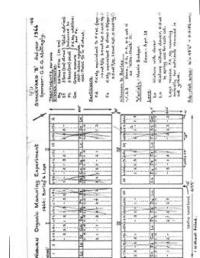


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# Collection of Plans for the Woburn Organic Manuring Experiment

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## W/RN/12 - Woburn Organic Manuring 1975 - 1979

### Rothamsted Research

Rothamsted Research (1966-1988) *W/RN/12 - Woburn Organic Manuring 1975 - 1979* ; Collection Of Plans For The Woburn Organic Manuring Experiment, pp 10 - 14

ORGANIC MANURING EXPERIMENT  
Stackyard B 1975

Sponsor: G.E.G. Marketing

11th year  
Sugar beet

WOBURN Barley  
75 ft W/RN/120

TREATMENTS per acre (hectare)  
Residues of Organic Manures (applied annually 1965-71) and Lysag (soil) (1965)

(Dg) 4 tons (10 tonnes) (DM) FYM, (16 tonnes [40 tonnes] FYM).

(St) 3 tons (7.5 tonnes) (DM) Straw

(Pt) 3 tons (7.5 tonnes) (DM) Peat

(Gm) Green Manure

(Lc) Grass-clover ley { ploughed up 1971 Blocks I & III

(Ln) Grass ley with N { 1972 Blocks II & IV

Fertilisers

(Fd) P, K, Mg equivalent to Dg (High PKMg)

(Fs) K, Mg equivalent to straw with P (Low PKMg)

Nitrogen to Barley 1975 Blocks I & III

No - None, N<sub>1</sub> - 0.2, N<sub>2</sub> - 0.4, N<sub>3</sub> - 0.6, N<sub>4</sub> - 0.8, N<sub>5</sub> - 1.0, N<sub>6</sub> - 1.19, N<sub>7</sub> - 1.39 cut Nov

0 25 50 75 100 125 150 175 kg/acre 25

Nitrogen to Sugar beet 1975 Blocks II & IV

No - None, N<sub>1</sub> - 0.3, N<sub>2</sub> - 0.6, N<sub>3</sub> - 0.9, N<sub>4</sub> - 1.3, N<sub>5</sub> - 1.6, N<sub>6</sub> - 1.9, N<sub>7</sub> - 2.2 cut Nov

0 40 80 120 160 200 240 280 kg/ha

VARIETIES

Blocks I & III Barley - Julie Sown Oct: 140lb (157kg) Date: 4 Mar

Blocks II & IV Sugar beet - Klein E Sown at: 5 lb (5.6kg) Date: 21 Apr

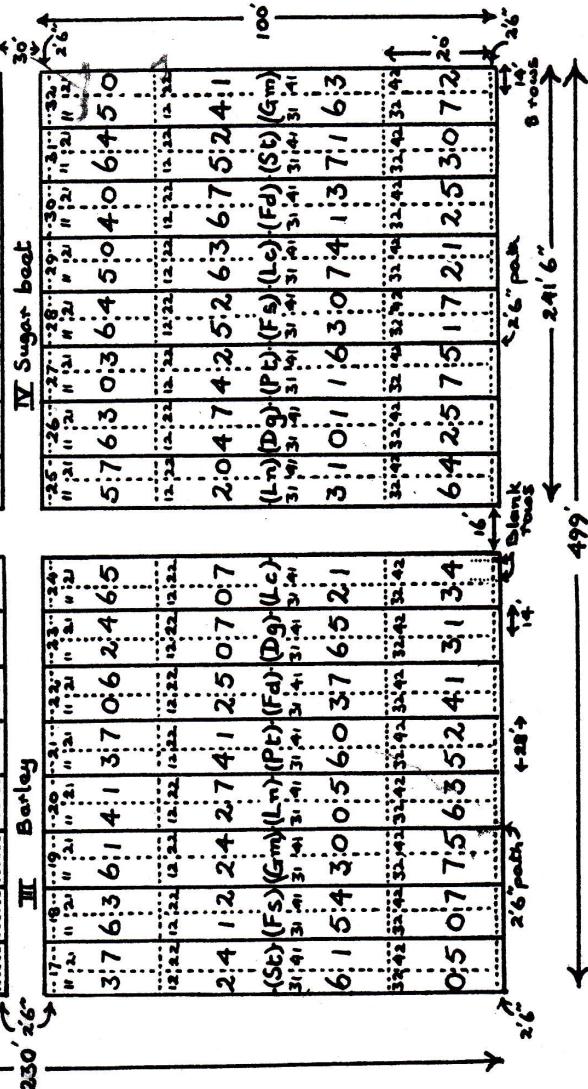
Basal Manuring per acre (hectare)

Sugar beet - 0.9 quint (14kg) P<sub>2</sub>O<sub>5</sub> as superphosphate, 1.4 quint (180kg) K<sub>2</sub>O as muriate of potash ploughed in in autumn. 50lb (57.2kg) compound fertiliser (0.20:20), 89lb (nookg) MgO as Epsom salts in the seed bed 7.3lb (8.2kg) B<sub>2</sub>O<sub>3</sub> as 'Sudbor' in June. 2 tones (5 tonnes) Chalk (in Autumn)

Barley - 255lb (288kg) compound fertiliser (0.20:20) C.D.

Sub-plot area

14' x 20' = 0.0064 acre (0.0026 ha)







ORGANIC MANURING EXPERIMENT 14th year STACKYARD 'B' 1978  
WOBBURN Winter Wheat

78/W/RN/12 I

		TREATMENTS per acre (hectare)											
		Residues of organic Manures applied annually 1965-71 & Ley (soil in 1965)											
		(Dg) 4 tons (tonnes) (DM) FYM, (16 tons [Atonnes] FYM)											
		(St) 3 tons (7.5 tonnes) (DM) Straw											
		(Pt) 3 tons (7.5 tonnes) (DM) Peat											
		(Gm) Green Manure											
		(Lc) Grass-clover ley (Ploughed up 1971 Blocks II & III)											
		(Ln) Grass ley within N (1972 Blocks II & III)											
		(Fd) P, K, Mg equivalent to Dg (High PK/Mg)											
		(Fs) K, Mg equivalent to Straw with P (Low PK, Mg)											
		NITROGEN to Winter Wheat 1978 Series I & III											
		O-None, 1-0.24, 2-0.48, 3-0.72, 4-0.96, 5-1.20, 6-1.44, 7-1.68 cut N											
		(Fs) K, Mg equivalent to Winter Wheat 1978 Series II & IV											
		O-None, 1-0.6, 2-1.19, 3-1.79, 4-2.39, 5-2.99, 6-3.58, 7-4.18 cut N											
		Nitrogen to Potatoes 1978 series III & IV											
		O-None, 0-30, 60, 90, 120, 150, 180, 210 kg N											
		Nitrogen to Potatoes 1978 series III & IV											
		O-None, 0-75, 150, 225, 300, 375, 450, 525 kg N											
		VARIETIES											
		Block II & III Winter Wheat - Maris Huntsman sown at 190 lb (215 kg)											
		Block II & IV Potatoes - Portland Cream Planted: 24 Apr. [Date: 14 Nov]											
		BASAL MANURING per acre(hectare)											
		Winter Wheat - 0.9 cut (114 kg) P.O.S as superphosphate											
		O-48 cut (60 kg) K <sub>2</sub> O as Muriate of potash											
		Potatoes - 1080 lb (12.10 kg) compound fertiliser (0.120:2.0)											
		in autumn, 1080 lb (12.10 kg) compound fertiliser (0.120:2.0)											
		(0.120:2.0) in the seedbed plus 372 lb (417 kg) Kieserite											
		Sub.PLOT AREA											
		14' x 20' = 0.0064 acre (0.0026 ha)											
		26' plots x 28' Blank rows											
		24' 6" Blank rows											

ORGANIC MANURING EXPERIMENT												15th year																
W/ABURN						Sugar beet & Grass/Clover						Winter Wheat II						Winter Wheat										
79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21	79/8/21						
0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05					
11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21	11.21					
4.5	0.7	6.7	3.5	6.3	4.7	6.7	5.4	3.5	5.1	1.0	7.5	5.2	2.6															
12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22					
3.1	6.1	5.4	2.0	5.2	0.6	1.2	1.3	1.4	3.0	2.6	1.6	3.7	7.0															
(L)	(L)	(L)	(L)	(L)	(L)	(C)	(P)	(P)	(F)	(F)	(G)	(P)	(S)															
7.6	5.3	1.0	1.6	7.1	5.2	0.5	2.7	0.6	4.7	3.7	2.0	0.6	4.1															
33.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42					
2.0	4.2	3.2	4.7	0.4	3.1	4.3	0.6	7.2	6.2	4.5	3.4	4.1	3.6															
2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6				
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2				
1.4	1.4	3.6	1.2	5.3	1.2	2.0	1.4	7.4	1.3	2.7	3.7	1	3	2.7														
5.3	6.5	5.0	5.2	7.0	5.2	5.7	3.0	3.5	2.5	1.4	1.0	2	5	3	6													
(S)	(F)	(L)	(C)	(L)	(C)	(P)	(L)	(P)	(D)	(F)	(S)	(S)	(G)	(G)														
1.6	2.3	7.2	4.0	1.2	5.6	4.6	7.6	6.1	4.7	0.3	6.4	0.6	1.4															
33.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42					
7.2	7.0	1.4	3.6	4.6	4.3	1	3.5	2.0	6.0	5.6	5.2	4.7	0.5															
2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6				
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2				
1.4	1.4	3.6	1.2	5.3	1.2	2.0	1.4	7.4	1.3	2.7	3.7	1	3	2.7														
5.3	6.5	5.0	5.2	7.0	5.2	5.7	3.0	3.5	2.5	1.4	1.0	2	5	3	6													
(S)	(F)	(L)	(C)	(L)	(C)	(P)	(L)	(P)	(D)	(F)	(S)	(S)	(G)	(G)														
1.6	2.3	7.2	4.0	1.2	5.6	4.6	7.6	6.1	4.7	0.3	6.4	0.6	1.4															
33.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42					
7.2	7.0	1.4	3.6	4.6	4.3	1	3.5	2.0	6.0	5.6	5.2	4.7	0.5															
2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6				
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2				
1.4	1.4	3.6	1.2	5.3	1.2	2.0	1.4	7.4	1.3	2.7	3.7	1	3	2.7														
5.3	6.5	5.0	5.2	7.0	5.2	5.7	3.0	3.5	2.5	1.4	1.0	2	5	3	6													
(S)	(F)	(L)	(C)	(L)	(C)	(P)	(L)	(P)	(D)	(F)	(S)	(S)	(G)	(G)														
1.6	2.3	7.2	4.0	1.2	5.6	4.6	7.6	6.1	4.7	0.3	6.4	0.6	1.4															
33.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42				
7.2	7.0	1.4	3.6	4.6	4.3	1	3.5	2.0	6.0	5.6	5.2	4.7	0.5															
2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6				
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2				
1.4	1.4	3.6	1.2	5.3	1.2	2.0	1.4	7.4	1.3	2.7	3.7	1	3	2.7														
5.3	6.5	5.0	5.2	7.0	5.2	5.7	3.0	3.5	2.5	1.4	1.0	2	5	3	6													
(S)	(F)	(L)	(C)	(L)	(C)	(P)	(L)	(P)	(D)	(F)	(S)	(S)	(G)	(G)														
1.6	2.3	7.2	4.0	1.2	5.6	4.6	7.6	6.1	4.7	0.3	6.4	0.6	1.4															
33.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42				
7.2	7.0	1.4	3.6	4.6	4.3	1	3.5	2.0	6.0	5.6	5.2	4.7	0.5															
2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6				
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2				
1.4	1.4	3.6	1.2	5.3	1.2	2.0	1.4	7.4	1.3	2.7	3.7	1	3	2.7														
5.3	6.5	5.0	5.2	7.0	5.2	5.7	3.0	3.5	2.5	1.4	1.0	2	5	3	6													
(S)	(F)	(L)	(C)	(L)	(C)	(P)	(L)	(P)	(D)	(F)	(S)	(S)	(G)	(G)														
1.6	2.3	7.2	4.0	1.2	5.6	4.6	7.6	6.1	4.7	0.3	6.4	0.6	1.4															
33.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42	32.42			
7.2	7.0	1.4	3.6	4.6	4.3	1	3.5	2.0	6.0	5.6	5.2	4.7	0.5															
2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6				
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2				
1.4	1.4	3.6	1.2	5.3	1.2	2.0	1.4	7.4	1.3	2.7	3.7	1	3	2.7														
5.3	6.5	5.0	5.2	7.0	5.2	5.7	3.0	3.5	2.5	1.4	1.0	2	5	3	6													
(S)	(F)	(L)	(C)	(L)	(C)	(P)	(L)	(P)	(D)	(F)	(S)	(S)	(G)	(G)														
1.6	2.3	7.2	4.0	1.2	5.6	4.6	7.6	6.1	4.7																			