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RESEARCH

# Collection of Plans for the Woburn Organic Manuring Experiment

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## W/RN/12 - Woburn Organic Manuring 1995 - 1999

### Rothamsted Research

Rothamsted Research (1966-1988) *W/RN/12 - Woburn Organic Manuring 1995 - 1999* ; Collection Of Plans For The Woburn Organic Manuring Experiment, pp 30 - 34



32nd year STACKEYARD 2 1996  
 Sponsor: P. R. Poulton

WOBURN W. Wheat

Block I 6 H. wheat

01	02	03	04	05	06	07	08
(1)(5)	(4)(3)	(4)(4)	(3)(4)	(3)(4)	(5)(3)	(4)(1)	(5)(4)
(Lc)	(Lm)	(Sc)	(Gm)	(Dg)	(Fd)	(Lc)	(Fs)
(4)(1)	(5)(2)	(3)(1)	(3)(5)	(1)(5)	(4)(1)	(5)(2)	(1)(2)
(2)(3)	(1)(1)	(5)(2)	(1)(2)	(1)(2)	(2)(1)	(1)(3)	(3)(1)

Block II 5 H. wheat

09	10	11	12	13	14	15	16
(1)(5)	(2)(1)	(2)(5)	(5)(1)	(1)(5)	(2)(3)	(1)(4)	(5)(3)
(Fd)	(Gm)	(Dg)	(Lc)	(Lc)	(Fs)	(Lc)	(Lc)
(4)(2)	(4)(2)	(1)(4)	(4)(3)	(3)(2)	(5)(1)	(1)(5)	(1)(4)
(1)(3)	(1)(5)	(3)(4)	(1)(1)	(4)(1)	(1)(1)	(2)(3)	(1)(2)

Block III 6 H. wheat

17	18	19	20	21	22	23	24
(3)(1)	(1)(2)	(3)(1)	(1)(3)	(4)(3)	(1)(5)	(3)(4)	(1)(4)
(Sc)	(Fs)	(Lc)	(Lm)	(Pt)	(Lc)	(Dg)	(Lc)
(2)(1)	(1)(4)	(2)(2)	(1)(5)	(1)(1)	(2)(4)	(5)(3)	(3)(2)
(1)(4)	(4)(3)	(5)(1)	(2)(4)	(2)(5)	(1)(3)	(1)(1)	(1)(5)

Block IV 5 H. wheat

25	26	27	28	29	30	31	32
(5)(4)	(1)(4)	(2)(3)	(1)(4)	(1)(2)	(1)(3)	(3)(1)	(5)(1)
(Lm)	(Dg)	(Pt)	(Lc)	(Lc)	(Fd)	(Sc)	(Gm)
(1)(1)	(3)(1)	(4)(5)	(5)(1)	(4)(5)	(5)(2)	(2)(4)	(5)(1)
(3)(2)	(2)(5)	(1)(1)	(2)(3)	(1)(3)	(1)(4)	(1)(5)	(4)(2)

Block V 5 H. wheat

33	34	35	36	37	38	39	40
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block VI 5 H. wheat

41	42	43	44	45	46	47	48
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block VII 5 H. wheat

49	50	51	52	53	54	55	56
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block VIII 5 H. wheat

57	58	59	60	61	62	63	64
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block IX 5 H. wheat

65	66	67	68	69	70	71	72
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block X 5 H. wheat

73	74	75	76	77	78	79	80
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XI 5 H. wheat

81	82	83	84	85	86	87	88
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XII 5 H. wheat

89	90	91	92	93	94	95	96
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XIII 5 H. wheat

97	98	99	100	101	102	103	104
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XIV 5 H. wheat

105	106	107	108	109	110	111	112
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XV 5 H. wheat

113	114	115	116	117	118	119	120
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XVI 5 H. wheat

121	122	123	124	125	126	127	128
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XVII 5 H. wheat

129	130	131	132	133	134	135	136
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XVIII 5 H. wheat

137	138	139	140	141	142	143	144
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XIX 5 H. wheat

145	146	147	148	149	150	151	152
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XX 5 H. wheat

153	154	155	156	157	158	159	160
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXI 5 H. wheat

161	162	163	164	165	166	167	168
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXII 5 H. wheat

169	170	171	172	173	174	175	176
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXIII 5 H. wheat

177	178	179	180	181	182	183	184
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXIV 5 H. wheat

185	186	187	188	189	190	191	192
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXV 5 H. wheat

193	194	195	196	197	198	199	200
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXVI 5 H. wheat

201	202	203	204	205	206	207	208
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXVII 5 H. wheat

209	210	211	212	213	214	215	216
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXVIII 5 H. wheat

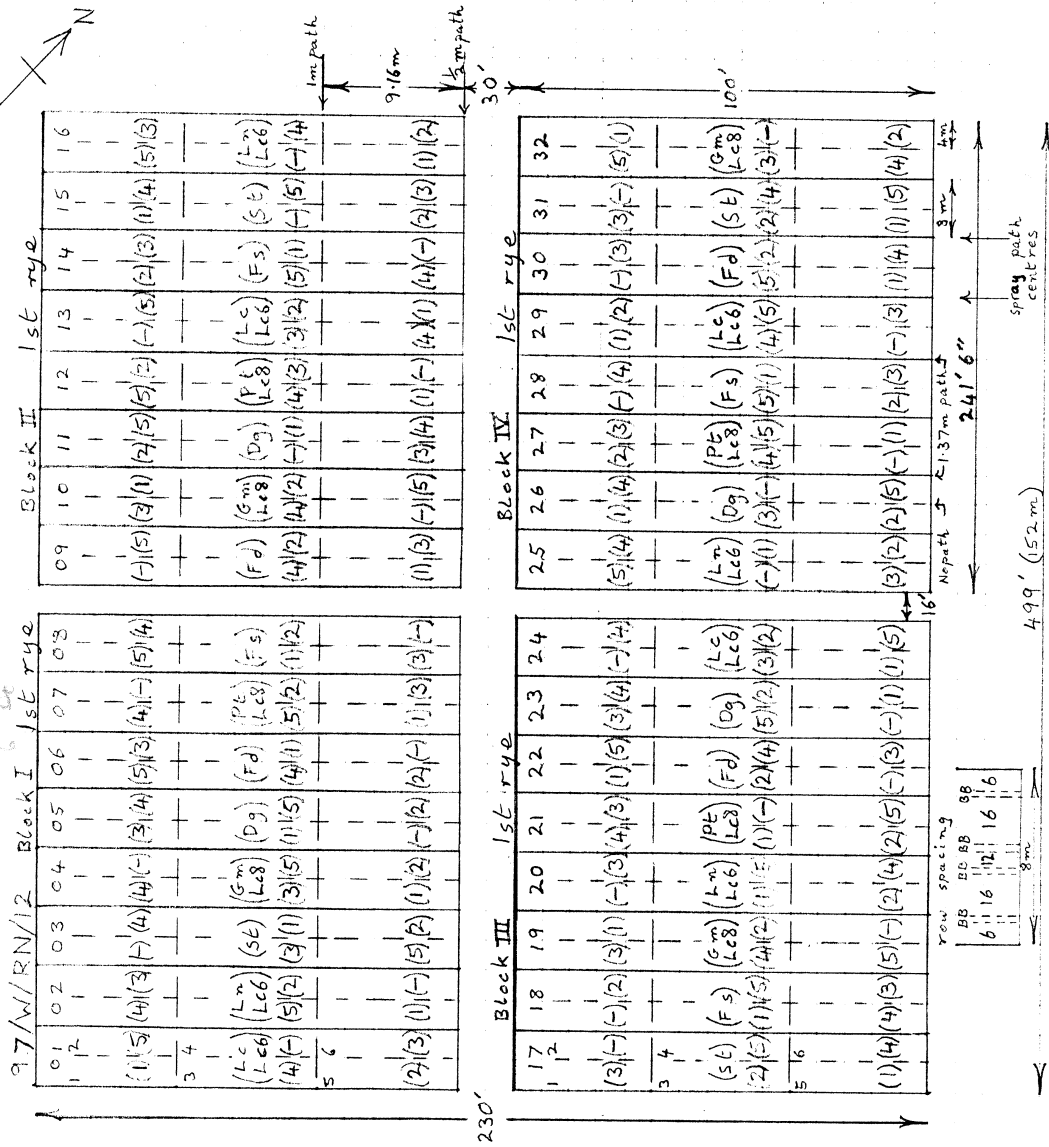
217	218	219	220	221	222	223	224
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)
(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)	(1)(1)

Block XXIX 5 H. wheat

33rd year STACKYARD B 1997  
 Sponsor: P. R. Poulton

ORGANIC MANURING EXPERIMENT

Woburn W. Rye



TREATMENTS

- Residues of organic manures  
 (Dg) FYM annually 1965-71 and 1981-85  
 (St) Straw annually 1965-71 and 1981-85  
 (Gm) Green manure annually 1965-71 then (Lc8) ley  
 (clover/grass) 1979-86 (Blks I & III) 1980-87 (Blks II & IV)  
 (Pt) Peat annually 1965-71 then (Lc8) 1979-86 (Blks I & III) 1980-87 (Blks II & IV)  
 Residues of Fertilizers  
 (Fd) P K Mg Equivalent to (Dg) rate, annually 1965-71 & 1981-86 (Blks I & III) 7 (Blks II & IV)  
 (Fs) K Mg Equivalent to straw with P annually 1965-71 then  
 1/2 Dg rate 1981-86 (Blks II & IV) 7 (Blks I & III)  
 Lays: (Lc) clover/grass ley 1965-71 then (Lc6) 1981-86 (Blks I & III) 7 (Blks II & IV) -  
 (Lm) Grass ley with N - clover/grass ley

Subplot Residual nitrogen treatments last applied 1994  
 (-), (1), (2), (3), (4), (5) 0, 50, 100, 150, 200, 250 kg N ha<sup>-1</sup>

BASAL MANURE  
 P & K (0:20:32) @ 500 kg ha<sup>-1</sup>  
 No nitrogen

VARIETY  
 Amando dressed Bataun @ 400 seeds/m<sup>2</sup> on 10 Oct 1996

SUB-PLOT AREA  
 14' x 30' = 0.039 ha.  
 harvested area = 2m x 9.16m = 0.00183 ha

Straw yields from (Fd) and (Dg) treatments

W. wheat

Sponsor P.R. Poulton

