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Collection of Plans for the Woburn Organic Manuring Experiment



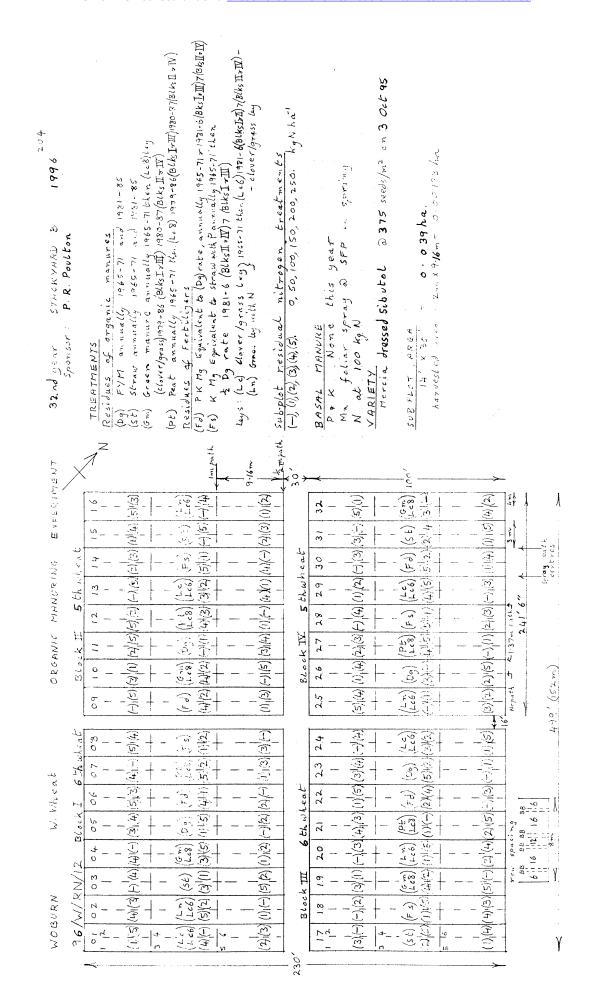
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Rothamsted Research

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31st year STACKYARD & 1995 Sponsor: P.R. Poulton	HTMES FYM SCraw Green	(PE) Peat annually 1965-71 Hen (L.8) 1979-86(BCKSITM)1930-87/8CK2 II - W) Residues of Fertilizers (Fd) PK Mg Equivalent to (Pg) rate, annually 1965-71 × 1981-6(BKSITM)7/8KIT. (F3) K Mg Equivalent to straw with Pannually 1965-71 then 2 Dg rate 1981-6 (BCKITM)7, 18CKSITM)	(Ln) Gras by with N 3 The Charles of the Charles	BASAL MANURE PAK None this year Ma foliar spray 2 SFP in spring N at 100 kg N	VARIETY Mercia dressed Rapport		
- - - - - - - - - - - -	(2) - (2) -	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(0, (3) (-1) (5) (-1) (-1) (-1) (-1) (-1) (-1) (-1) (-1	* 8 - (J.		$ \delta'(2) (2) (2) (5) (-) (1) (2) (3) (7) (4) (1) (4) (1) (5) (4) (2) $ $ \delta''(2) (2) (2) (2) (2) (2) (2) (3) (7) (4) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7$	sping path.
: 4 r	(4)(3) (4)(4)(7) (3)(4)	$ \frac{(L^{c}_{c})}{(L^{c}_{c})} \frac{(L^{c}_{c})}{(L^{c}_{c})} \frac{(S^{c}_{c})}{(S^{c}_{c})} \frac{(F^{c}_{c})}{(F^{c}_{c})} \frac{(F^{c}_{c})}{(F^{c}_{c})}$	(3) (1) (-) (5) (4) (1) (2) (-) (4) (4) (1) (3) (3) (-) (-) (3) (4) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	20 21	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(3)(1)(1)(3)(3)	64



V86	98/W/RN/12	12				Org	Organic Manuring Experiment	anurin	g Exp	erime	nt				34t	34th year	Stackyard B 204
				W. wheat	eat				Spo	Sponsor P.R. Poulton	P.R. P	oultor	_				
Block I	ck I							Bl	Block II						+	Z	
01 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2	2 02	03	04 (4)(-)	05	06 (5) (3)	(4)(-)	08	0	09 10 	10 11 11 11 11 11 11 11 1	(5) (5)(2)	(2) (-)(5)	5) (2)(3)	3) (1)(4)	16 		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-
3 4 (Lc) (Lc6) (4) (-)	(C) (S)(2) (S)(2)	(St) - (St) -	(Gm) (Lc8) (3)(5)	(Dg)	(Fd) ((Pt) (Lc8) (5)(2)	(Fs) (1)(2)	(F)	(Fd) (Gm) (1.c8 (4)[(2) (4)](2)	m) (Dg) (-)(1) (-)(1)	g) (Pt) (Lc8) (1) (4)(3)	(1) (Lc) (3) (3)(2) (1)	(Fs) (5) (7) (7) (7) (7)	(St) (-)(5)	(Ltc6) (-)(4)		86 (blocks I & III) 1980-87 (blocks II & IV) (Pt) Peat annually 1965-71 then (Lc8) 1979-86 (blocks I & III) 1980-87 Residues of fertilizers (Fd) PKMg equivalent to (Dg) rate, annually 1965-71 & 1981-6 (blocks I & III), 7 (blocks II & IV) (Fs) KMg equivalent to straw with P annually 1965-71 then ½ Dg rate
(2)(3)	3) (1)(-)	(5)(2)	(1)(2)	(3)	(2) (-)	(1)(3)	(3)(-)	[<u>(f)</u>	(1)(3)	(-) (5) (3) (4)	(4) (1)(-)	(-) (4)(1)	1) (4)(-)	(2)(3)	(1)(2)		1981-6 (blocks II & IV), 7 (blocks I & III) Leys (Lc) clover/grass ley) 1965-71 then (Lc6) 1981-6 (blocks I & III), (Ln) grass ley with N) 7 (blocks II & IV) Sub-plot residual nitrogen treatments last applied 1994 (-),(1),(2),(3),(4),(5) 0,50,100,150,200,250 kg Nha
,30,								Ble	Block IV	/						₹ %→	Basal manure
17 1 2	$-\frac{18}{(-)^2(2)}$	19 (3)((1)	$-\frac{20}{(\cdot)[3]}$	21	22 -	23	24	25	25 26 	(4) (2)(3)	(5) (-)(4)	4) (1)(2)	30 (-)(3)	31 (3)(-)	32 (5)(1)	path.	Variety Variety Vereward dressed Sibutol sown at 385 seeds/m² on 30 September 1997
3 + 4 (St) (St) (St)	4	(Gm) (Lc8) (4)(2)	(Lc6) (1)(5)	(Pt) (Pt) (-(1) (-)	(Fd) (Fd)	(5)(2)	(Lc) (Lc) (3)(2)	(La) (Lc6) (-)((1)	(1) (3)(-5)	g) (Pt) (Cs) (Lcs) (-) (4)(5)	(Fs) (5)(1)	(Lc6) (1) (4)(5)	(Fd) (5) (5)(2)	(St) - (2)(4)	(Gm) (Lc8)		Sub-plot area 14' x 30' = 0.039 ha 1 No internal cross-paths // Combine cut from whole 100' plot length, two cuts per plot // No straw yields
(1)(4)	6 4) (4)(3)	(5)(-)	(2)(4)	(2)(5)	(-)(3)	(-)(1)	(1)(5)	(3)(2)	(2) (2) (5)	(5)	(2)(3)	3) (-)(3)	3) (1)(4)	(1)(5)	(4)(2)	9.16 m	J
- 		-		.37m paths	hs h		No paths 49	16' (152 m)		7 (10)		241' 6"		spray path	ath es	>	Row spacing E B B B B B B B B B B B B B B B B B B

Stackyard B 204			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 (blocks I & III) 1980-87 (blocks II & IV) Peat annually 1965-71 then (Le8) 1979-86 (blocks I & III) 1980-87 (blocks II & IV) Residues of fertilizers (Fd) PKMg equivalent to (Dg) rate, annually 1965-71 & 1981-6 (blocks I & III), 7 (blocks II & IV) (Fs) KMg equivalent to straw with P annually 1965-71 then ½ Dg rate	1981-6 (blocks II & IV), 7 (blocks I & III) Leys (Lc) clover/grass ley) 1963-71 then (Lc6) 1981-6 (blocks I & III), (Ln) grass ley with N) 7 (blocks II & IV) Sub-plot residual nitrogen treatments last applied 1994 (-),(1),(2),(3),(4),(5) 0,50,100,150,200,250 kg N/ha		r & n N Variety Hereward o	Sub-plot area 14' x 30' = 0.039 ha	// No internal cross-paths // Combine cut from whole 100' plot length, two cuts per plot // No straw yields		Row spacing 0.8 p.g. B.b. B.B
35th year	/	N	15 16 (1)(4) (3)(3)	(St) (Ln) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(2)(3)	~ o →	31 32 Path.		(St) (Gm) 	(1)(5) (4)(2) 9·16 m	spray path
Organic Manuring Experiment	Sponsor P.R. Poulton	Block II	(-)(5) (3)(1) (2)(5) (5)(2) (-)(5) (2)(3) (1)	(4)(2) (4)(2) (-)(1) (4)(3) (3)(2) (5)(1) (-)(1)	(1)(3) (-)(5) (3)(4) (1)(-) (4)(1) (4)(-) (2)	Block IV	25 26 27 28 29 30 3 		(Ln) (Dg) (Pt) (Fs) (Lo6) (Lo6) (Lo6) (Jn) (3)(-) (4)(5) (5)(1) (4)(5) (5)(2) (2)(1)	(3)(2) (2)(5) (-)(1) (2)(3) (-)(3) (1)(4) (1)(7)	(m)
99/W/RN/12 Organic Man	W. wheat	Block I	A 01 02 03 04 05 06 07 08 1 2 <	3 4 7 4 3 5 6 1 6	(2)(3) (1)(-) (5)(2) (1)(2) (-)(2) (2)(-) (1)(3) (3)(-)	990	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(St) (Fs) (Gm) (Ln) (Pt) (Fd) (Dg) (Lc) (Lc) (2)(3) (1)(5) (1)(5) (4)(2) (1)(5) (1)(5) (1)(6) (2)(4) (5)(2) (3)(2)	(1)(4) (4)(3) (5)(-) (2)(4) (2)(5) (-)(3) (-)(1) (1)(5)	4m 8m 1.37m paths 16'>≺