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Collection of Plans for the Woburn Organic Manuring Experiment



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W/RN/12 - Woburn Organic Manuring 2005 - 2009

Rothamsted Research

Rothamsted Research (1966-1988) *W/RN/12 - Woburn Organic Manuring 2005 - 2009 ;* Collection Of Plans For The Woburn Organic Manuring Experiment, pp 40 - 46

	05/W Spon	05/W/RN/12 – Organic Manuring Sponsor: P.R. Poulton. A.J. Macdonald	2 – Org R. Pou	șanic M Iton. A	lanurin J. Mae	اع دdonale	Ŀ.			W.	W. beans			41 st year	year		N Stackyard B 203
0.5m			→ 1.37m path	7_	-73.61m -	Block	ck 1	↑	15	-152.1m 4.88m discard	liscard	Blo	Block 2			\uparrow	TREATMENTS Organic Treatments since 2003
	01	67	03	04	05	90	07	08	60	10	11	12	13	14	15	16	F - none Dg10 - FYM at 10 t/ha/yr
9.16m	LC .	Щ	St	CC	Dg25	Ц	Co	Dg10	Щ	CC	Dg25	Co	Lc	Dg10	St	Ц	Dg25 - FTM at 25 Unaryr St - Chopped wheat straw at 7.5 Uha/yr CC - Cover crop (white mustard) prior to spring-
29.48m	(Jrc) (Jrc)	(L.n) (L.c6)	(St)	(Gm) (Lc8)	(Dg)	(Fd)	(Pt) (Lc8)	(Fs)	(Fd)	(Gm) (Lc8)	(Dg)	(Pt) (Lc8)	(Jc6) (Lc6)	(Fs)	(St)	(Ln) (Lc6)	sown crop Co - Compost at 40 t/ha/yr Lc - Permanent grass/clover: Timothy, Fescue & white clover sown @ 30 kg/ha on 4 Oct 2002
>		N	$\mathcal{O}^{(i)}$	and the second sec					Contraction	t		W _		Ś	M ·	\sim	Residues of previous treatments (see 'Yields' books 1965- 2002 for details) (Dg) FYM annually 1965-71 and 1981-85 (S1) Straw annually 1965-71 then (Lc8) (Gm) Green manure annually 1965-71 then (Lc8) grass/clover ley 1979-86 (Blocks I & III), 1980-87 (Blocks II
70.1m 9.14m				_		BI	Block 3		Block 4	k4							& IV) (Pt) Peat annually 1965-71 then (Lc8) grass/clover ley 1979- 86 (Blocks I & III), 1980-87 (Blocks II & IV)
\leftarrow	17	18	19	20	21	22	23	24	25	26	27	28	29	30 3	31 3	32	(Fed) FKMg Equivalent to (Ug) rate, annuality 1905-71 and 1981-86 (Blocks I & III), 1981-87 (Blocks II & IV) (Fs) KMo equivalent to (St) with P annally 1965-71 then 3;
8.16m	St	Dg10	CC	Ц	Co	Ц	Dg25	Lc	Ц	Dg25	Co	Dg10	Lc	Ц	St	CC	 (4) Tate 1981-86 (Blocks 1 & III), 1981-87 (Blocks II & III) (Ln) Grass ley with N 1965-71 then (Lc6) grass/clover ley 1981-86 (Blocks I & III), 1981-87 (Blocks II & IV) (Lo) Grass(lover ley 1965-71 then (Lc6) grass/clover ley (Lo) Grass(lover ley 1965-71 then (Lc6) grass/clover ley (PR1-86 (Blocks I & III), 1981-87 (Ploche II & IV)
	(St)	(Fs)	(Gm) (Lc8)	(La) (Lc6)	(Pt) (Lc8)	(Fd)	(Dg)	(Jc) (Lc6)	(Lc6) (Lc6)	(Dg)	(Pt) (Lc8)	(Fs)	(Jce) (1ce)	(Fd)	(St)	(Gm) (Lc8)	BASAL PKS/ha (to be applied early spring)
	\sim		÷	0	N.	Married and	5		2	5	5	n.)		7-angular CF	M	£	basal r at 97.5 kg t 5 r (20 kg r) to all treatments except Dg25 Basal KS at 200 kg K ₂ SO ₄ (83 kg K + 36 kg S) to all treatments except Dg25
$\overset{3m}{\leftarrow}$	 					1 1 1 1 1								,		······	No nitrogen for 2005
VARIETY W. beans				I S // rem // Fj end sub-	// Straw yi removed // From 19 end follow	ields N 199 Blo /ing sev	// Straw yields NOT required; removed // From 1999 Block III has 3m end following severe erosion i sub-nots are therefore shorter	uired; s las 3m (sion in horter	// Straw yields NOT required; straw baled and removed // From 1999 Block III has 3m discard at the NE end following severe erosion in winter 1998/99; sub-nots are therefore shorter	led and at the N 1998/9]] 円	Row :	Row spacing	8m	 وو]	ROTATION W. rye, s. barley, w. beans, w. wheat, f. maize
				1												קת	Verman 28.7.04

D.P. Yeoman, 28.7.04

	06/W/RN/12 – Organic Manuring Snonsor: P R Poulton A I Macdonald	rganic Manuı ulton A I M	ring Aacdonald	W.	. wheat				42 nd	year		N Stackyard B	203
	8m × 1.37	73.61m	n Block		15	-152.1m		Block 2			↑	TREATMENTS Organic Treatments since 2003	
9.16m	02 02 03 N3 N4 N1	04 N1 N0	06 N0 N4	08 1 V 1	00 N3 N3	10 11 N1 N5 N5	4 12 1 12	13		15 16 NI N0 N1	NS	F - none Dg10 - FYM at 10 t/ha/yr Dg25 - FYM at 25 t/ha/yr St - Chopped wheat straw at 7.5 t/ha/yr	
0.5m	LC F St (La) (La) (La) (La) (La) (La) (La) (La)	CC D1 (Gm) (I (128) (I (128) N3 N4 N5 N3	(Fd) N3 N5	(P) (E) (E) (E) (E) (E) (E) (E) (E) (E) (E	(Ēd) N2 N0	C C D C D X3 V1 (C D X3 V1 (C D X3 V1 (C D X3 V1 (C D X	g 25 (Vi (Lc) Vi	Dg10 (Fs) N3 N4	St (St) (1 (3t) (1 N3 N5 N7	7 ([L66) NA	CC - Cover crop (white mustard) prior to spring- sown crop Co - Compost at $40 t'$ ha/yr Lc - Permanent grass/clover: Timothy, Fescue & white clover sown @ 30 kg/ha on 4 Oct 2002	o spring- escue & 2002
>	9 IZ	N2 N3 N3	N2 N1	NS NS	N4 N1	2 Z	N2 N0	2	Z Z	5 X	R R	Residues of previous treatments (see 'Yields' books 1965- 2002 for details) (Dg) FYM annually 1965-71 and 1981-85 (St) Straw annually 1965-71 and 1981-85 (Gm) Green manure annually 1965-71 then (Lc8) (Gm) Green manure annually 1969-86 (Blocks I & III), 1980-87 (Blocks II & N)	s 1965- Blocks II
70.1m 9.14m	in an	•	Block	ck 3	Block 4	k 4		*				(Pt) Peat amnually 1965-71 then (Lc8) grass/clover ley 1979- 86 (Blocks I & III), 1980-87 (Blocks II & IV) 773 DVM2 conviction of the constant of the standard of the standard	ley 1979-
	17 18 19 N2 N0 N5 N4 N0 N5 St Dg10 CC C C C	20 21 20 8 21 8 22 21 2 60 73 73 73 73 73 73 73 73 73 73 73 73 73	22 N0 N3 N	23 24 N4 N3 Dg25 Lc	25 N1 N5 F	26 27 NI N5 N4 Dg25	28 7 7 7 7 8 7 7 8 7 7 8 7 7 8 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	29 10 Lc	30 N1 N4 F	31 32 N2 N5 N0 St C	C N	1981-86 (Blocks I & III), 1981-87 (Blocks II & IV) (Fs) KMg equivalent to (St) with P, anually 1965-71 then ½ (Fd) rate 1981-86 (Blocks I & III), 1981-87 (Blocks II & III) (Ln) Grass ley with N 1965-71 then (Lc6) grass/clover ley (Ln) Grass/clover ley 1965-71 then (Lc6) grass/clover ley (Lc) Grass/clover ley 1965-71 then (Lc6) grass/clover ley (Lc) Grass/clover ley 1965-71 then (Lc6) grass/clover ley (Le) Grass/clover ley 1965-71 then (Lc6) grass/clover ley	7.1 dut 71 then ½ ss II & III) over ley vver ley
26.48m	(\$1) N3 N1 N0 N1 N2 N4	([10) N1 (120) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (110) (11	(Fd) N5 N1	(Dg) (Lc6) ((1n) (1c6) N3 N0	(Dg) (10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Ptt) (1 28) N3 N5	(Lc6) N4	(Fd) N3 N2	(\$t) (\$t) N3 N1 N3 N3 N3	5 N3	BASAL PKS/ha (to be applied early spring) Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25 Basal KS at 200 kg K ₂ SO ₄ (83 kg K + 36 kg S) to all treatments except Dg25	ng) 5 kg S)
↓ ↓ ¹ ^{3m} ² VARIETY	N4 N5 N2 N3 N3 N1	X	vields NO	N3 N2 N0 N4 N2 N3 N2 N3 N2 N3 N2 N4 N2 N3 N3 N2 N4 N2 N4 N2 N3 N2 N5 N2 N2 N4 N2 N3 N5 N2 N2 N4 N2 N3 N6 N2 N2 N3 N2	straw baj	N3 N2 N0	N N N N N N N N N N N N N N N N N N N	N3 Row spacing	NS NO	N4 N0 N2	N4	Nitrogen for 2006, /ha N0-5 0, 50, 100, 150, 200, 250 kg N/ha as Nitrochalk split 50 kg N late-Feb/early March remainder mid-April	ochalk
W. whea @ s/m	W. wheat, Hereward tr. @ s/m ² on	removed // From 1 end follo sub-plots	removed // From 1999 Block III has 3 end following severe erosion sub-plots are therefore short	removed // From 1999 Block III has 3m discard at the NE end following severe erosion in winter 1998/99; sub-plots are therefore shorter	n discard in winter	at the NE 1998/99;	'	6	8m	16 6		ROTATION W. rye, s. barley, w. beans, w. wheat, f. maize	naize
												D.P. Yeoman, 5.9.05)5

Image: definition of the state of the s	203 Stackyard B	TREATMENTS Organic Treatments since 2003	16 F - none 16 Dg10 - FYM at 10 t/ha/yr N0 N4 Dg25 - FYM at 25 t/ha/yr St - Chopped wheat straw at 7.5 t/ha/yr F CC - Cover crop (white mustard) prior to spring-	 sown crop sown crop Co - Compost at 40 t/ha/yr Co - Compost at 40 t/ha/yr Lc - Permanent grass/clover: Timothy, Fescue & white clover sown @ 30 kg/ha on 4 Oct 2002 N1 N3 <i>Desidue of nonvinue transmute less</i>, Vialds' hode 1655 	NS N2 (Gm) Greatistic process treatments (according to the construction of the constru	(P1) Pear annually 1965-71 then (Lc8) grass/clover ley 1979- 86 (Blocks I & III), 1980-87 (Blocks II & IV) 64) PKM0 convivement to (Do) rate annually 1965-71 and	32 (rot) r Kuyg durvatent to (U2) tate, annuality 1962-71 and 1981-86 (Blocks I & III), 1981-87 (Blocks II & IV) N5 N0 (F5) KMg equivalent to (S1) with P, annuality 1965-71 then ½ (F6) rate 1981-86 (Blocks I & III), 1981-87 (Blocks II & III) N6 (F1) rate 1981-86 (Blocks I & III), 1981-87 (Blocks II & III) (Ln) GC (1)81-86 (Blocks I & III), 1981-87 (Blocks II & III) (Lo) (Lasselever ley 1965-71 then (Lc6) grass/clover ley 1981-86 (Blocks I & III), 1981-87 (Blocks II & IV) (1) (Lc) (Tass/clover ley 1965-71 then (Lc6) grass/clover ley 1981-86 (Blocks I & III), 1981-87 (Blocks II & IV)	 (dm) BASAL PKS/ha (to be applied early spring) Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25 Basal KS at 200 kg K₂SO₄ (83 kg K + 36 kg S) to all treatments except Dg25 	NI N3 Nitrogen for 2007, /ha N0-5 0, 50, 100, 150, 200, 250 kg N/ha as Nitrochalk split 50 kg N to the seedbed (except N0);	CROP ROTATION W. rye, s. barley, w. beans, w. wheat, f. maize NITROGEN ROTATION N5 > N4 > N3 > N2 > N1 > N0 > N5	D.P. Yeoman, 22.11.06
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	43 rd year		15 N0 N5 \$t	Fs) (\$t) N3 N2 N4	NI N3	-	31 N3 N1 N4 F \$ t	ed) (\$t) NI N2 N0	N5	r 1998/99;	
		4.88m discard	08 09 10 11 12 13 N0 N3 N4 N2 N0 N4 N4 N3 N3 N0 Dg10 F CC Dg25 Co	(Fs) (Fd) (Qm) (Dg) (Pt) N2 N1 N5 N2 N2 N5 N4 N2	N4 N5 N3 N0 N3 N1 N0 N1 N5		24 25 26 27 28 29 N0 N4 N0 N4 N3 N1 N5 N1 Lc F Dg25 Co Dg10 Dg10	(Lc) (1n) (12g) (P) (Fs) (Lc6) (1.c6) (1.c8) (1.c8) (1.c8) N2 N5 N3 N5 N4 N3		in From 1999 block in has one unscard end following severe erosion in winter sub-plots are therefore shorter	
F. mair F. ma	07/W/RN/12 – Organic Manuring Sponsor: P.R. Poulton, A.J. Macdonald	€ 73.61m - 73.61m	No1 02 03 04 05 06 07 n n2 n3 n0 n1 n0 n5 n6 07 n N2 N3 N0 N1 N0 N5 N0 N3 N3 L L F \$t C Dg255 F C	m 3 4 (Ed) (Ian) (Ian)	N3 N2 N1 N2 N2 N3 N1 N0	9.14m Block 3	18 19 20 21 22 2 Ns N4 N3 Ns N4 N1 N4 N2 N5 N2 N \$t Dg10 CC F Co F Co F	(5) (7s) (7m) (1m) (1m)	13 N4 N1 N2 N2 N0 N3 N2 N1 N5 N3 N1 N1	W. mustard, Rivona @ 350 s/m ² on 29 Sep 2006 F. maize, Hudson	

pp 4

Plan 203

Sponsors:

A Macdonald	2479
P Poulton	2490

Freatments:

Organic Treatments since 2003

Basal KS at 200 kg K2SO4 (83 kg K + 36 kg S) to all treatments except Dg25

Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25

Basal PKS/ha (to be applied early spring)

- None F Dg10
- FYM at 10 t/ha annually
- FYM at 25 t/ha annually Dg25 St
- Cover crop (white mustard) prior to spring sown crop Chopped wheat straw at 7.5 t/ha annually 20
 - Compost at 40 t/ha annually
- Permanent grass/clover: Timothy, Fescue & white clover sown @ 30 kg/ha, 4-Oct-2002 د د

Residues of previous treatments (see 'Yields' books 1965-2002 for details)

- FYM annually 1965-71, and 1981-85 (Dg) (St)
- Straw annually 1965-71, and 1981-85
- Green manure annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4) (Gm)
 - Peat annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1980-87 (blocks 2 & 4) (Pt) (Fd)
 - PKMg equivalent to (Dg) rate, annually 1965-71, and 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
- KMg equivalent to (St) with P, annually 1965-71, then half (Fd) rate 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4) (Fs)
 - Grass ley with N 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4) (Ln)

2009 S. Barley and Mustard

2010 W. Beans

2007 F Maize and Mustard

2008 W. Rye

2004 S. Barley and Mustard

2003 W. Rye

Crop rotation

2005 W. Beans 2006 W. Wheat

- Grass /clover ley 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

W. Rye Variety

Matador recleaned at 350 seeds/ m^2 , on 23-Oct-2007

// From 1999 block 3 has a 3.0 m discard at the NE end following severe erosion in winter 1998-99; sub-plots are therefore shorter

0, 30, 60, 90, 120, 150 kg N/ha as Nitrochalk

N5>N4>N3>N2>N1>N0>N5

Nitrogen rotation

Nitrogen for 2008 /ha N0-N5

203		0.5 m	9.16 m	05m		 	 	70.1 m									•			
Stackyard B		016	- 山	N5 N3	3 4 (Ln) (Lc6)	 ° N0 N2	 N4 7		032 1 2		2	3 4 (Gm)		6 N1						
Sta			- St	z	3 4 (St)	2 N1 83	 0 N0 N2		031			3 4 (St)		0 N1 N5 5 6			ZN			
z		014		N4 N3		 ° N2 °	 N5 N0		030 1 2					5 6 N						
ar		013	Ľ		(Lc) (Lc6)	 	 		029	Ľ		(Lc)								
44th year	Block 2	012 1 2			3 (Pt) (Lc8)	° N3	 N N0	lock	028 1 2		N4 NO	3 4 (Fs)		6 N3 6			<u>C</u>			
		011 1 2	Dg25		3 (Dg)	ۍ <mark>کا</mark> ۵	 N5 N0		027		UN ND	3 4 4 (Pt)	(LC8)	N3 81			14			
		010	U U U U		3 (Gm) (Lc8)	 5 N4 5 N1	 N2 N0		026 1 2			3 4 4 (Dg)		N2 84			Z			
		009 1 2	· LL ·	N3 N1	34 (Fd)	 5 N0 N4	 N2 N5		025 1 2	Ш.	N5 N3	3 4 4 (Ln)	(PC6)	N1 5 6 N4					E	
		008 1 2	Dg10	N5 N2	3 4 (Fs)	 5 N0	 N3 N4	-	024	Lc		(Jce) (Lcc)					4 88 m discard		m 1.261	
Rye		007 1 2		N2 N1	3 4 (Pt) (Lc8)	5 N4	N5 N3	-	023	Dg25	N2 N1	(Dg)	N5 N4		N0 N3					
Winter R		006 1 2	ш.	N4 N2	3 4 (Fd)	 6 N3 5 N3	 N0 N5		022	Ŀ	N4 N1	(Fd)	N3 N5		N2 N0					
		005 1 2	Dg25	N4 N5	34 (Dg)	 66 N3 5 6	 N1 N2		021 1 2	ပိ	N3 N1	(Pt) (Lc8)	N5 N2		N0 N4		73.61 m			
Organic Manuring	Block 1	004 1 2	3	N5 N4	3 4 (Gm) (Lc8)	N2 N3 5 6	 N0 N1		020	L	N3 N0	(Ln)	N5 N4	2 7	N2 N1		23			
Organic	ш	003 1 2	. St	1	34 (St)	6 N4	 N2 N1		019	0	N4 N3	(Gm) (Lc8)	N0 N2		N1 N5		1 37 m nath	inpaul	N M	
		002 1 2	· LL -	N1 N2	3 4 (Ln) (Lc6)	N4 N0 5 6	 N3 N5		018	Dg10		(Fs)	N4 N5		N0 N1	-	1 37	10.1	0 †	
12	•	001	Lc		(Pce) (Lcc)			•	1 017	St	N0 N4	(St)	N1 N5		N2 N3				norden er	
2008/W/RN/12 Stackvard R	oracivaria							9.14 m	•	8.16 m	•	26.48 m		-		3.0 m	-			

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Sponsors:

A Macdonald	2479	
P Poulton	2490	

Treatments:

Organic Treatments since 2003

- None ${
 m F}$ Dg10
- FYM at 10 t/ha annually FYM at 25 t/ha annually
- Chopped wheat straw at 7.5 t/ha annually
- Cover crop (white mustard) prior to spring sown crop (sown 30-Sep-08) Dg25 St CC
 - Compost at 40 t/ha annually r C
- Permanent grass/clover: Timothy, Fescue & white clover sown @ 30 kg/ha, 4-Oct-2002

Residues of previous treatments (see 'Yields' books 1965-2002 for details)

- FYM annually 1965-71, and 1981-85 (Dg) (Gm)
- Straw annually 1965-71, and 1981-85
- Green manure annually 1965-71, then (Lc8) grass/clover ley1979-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)
 - Peat annually 1965-71, then (Lc8) grass/clover ley 1979-86 (blocks 1 & 3), 1980-87 (blocks 2 & 4) (Pt)
- PKMg equivalent to (Dg) rate, annually 1965-71, and 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4) (Fd)
- KMg equivalent to (St) with P, annually 1965-71, then half (Fd) rate 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4) (Fs)
 - Grass ley with N 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4) (Ln)
 - Grass /clover ley 1965-71, then (Lc6) grass/clover ley 1981-86 (blocks 1 & 3), 1981-87 (blocks 2 & 4)

Variety

Mustard: Zlata (to be sown as early as possible, Mid August)

Sp. Barley: Tipple

// From 1999 block 3 has a 3.0 m discard at the NE end following severe erosion in winter 1998-99; sub-plots are therefore shorter // Paths widened to 1.0 m in 2009, measurements corrected and detailed on layout sheet, including reference posts

Plan 203

45th year

Basal P at 97.5 kg TSP (20 kg P) to all treatments except Dg25 Basal PKS/ha (to be applied early spring)

Basal KS at 200 kg K2SO4 (83 kg K + 36 kg S) to all treatments except Dg25

0, 35, 70, 105, 140, 175 kg N/ha as Nitro-Chalk 27.0% N Nitrogen for 2009 /ha N0-N5 N5>N4>N3>N2>N1>N0>N5 Nitrogen rotation

Crop rotation

2004 S. Barley and Mustard 2009 S. Barley and Mustard 2007 F Maize and Mustard 2006 W. Wheat 2005 W. Beans 2010 W. Beans 2008 W. Rye 2003 W. Rye

Stackyard B 203	, 1.0 m	016 path		N4 N2	3 4 path (Ln)	(Lc6) 29.49 m	N5 N1	N3 N0	70.1 m	032		N3 N4 N4		(Lc8)	N2 N0	5		N5 N1	2	Ť	
N Sta		014 015 1 2 1 2		N3 N2 N4 N3	3 4 3 4 (Fs) (St)		N0 N1 N0 N2 5 6 5 6	N4 N5 N5 N1		030 031 1 2 1 2		N4 N1 N5 N2			N5 N0	9 2 2 2		N3 N3 N3 N3			
45th year	Block 2	2 012 013 2 1 2 013		1 N1 N4	t 3 4 (Lc)		V3 N2 N0	 N5 N3 N5	Block 4	028 029					N2 N2	۵ ۵		4 NA			
		009 010 011 1 2 1 2		N2 N0 N4 N2 N2 N1		(rcco)	N5 N3 N3 N0 N0 N3 5 6 5 6 5 6	 N1 N4 N1 N5 N4 N		025 026 027 1 2 1 2 1 2		N4 N2 N4 N2 N1 N5		Second and the second sec	_	9		N1 N5 N0 N5 N3 N4			
arley		007 008 1 2 1 2		N4 N1	3 4 3 4 (Pt) (Fs) 4	()	N5 N3 N0 N5 5 6 5 6	N4 N2 N3 N3		023 024 1 2 024	Dg25 Lc		(Dg) (Lc) (Lc6)		<u>م</u>		N5 N2		4 88 m discard	152.1 m	
ing Spring Barley		2 1 2 1 2	Dg25 F	13 N3 N4 N3 N1	3 4 3 4 3 4 3 4 4 (Gm) (Fd) (Fd) (1 cm) (Dg) (Fd)		N2 N2 6 N2 6 N2 6 5 6 5	 0 N0 N1 N5 N4		021 022 1 2 1 2	ц С О	3 N0 4 N0	(Pt) (Fd) (Lc8)	N4 N1 N2	م م م		0 N5 N3 N1 N5		73.61 m		
Organic Manuring	8	002 003 004 2 1 2 1 2 2 2 2	- CC - CC	N4 N5	3 4 3 4 3 4 (Ln) (St) (Gm) /1 c6) /1 c8		N5 N2 N3 N1 6 5 6 5	 N4 N1 N0 N5 N0		018 019 020 1 2 1 2 1 2 2 2		3 N2 4 A2	(Fs) (Gm) (Ln) (Lc6)	N4 N5 N1 N4	0 0 0		NO NO N4 N1 N0		1.37 m path		
2009/W/RN/12 Stackyard B	-	001	Lc	ON	(LC) 11 3 (LC) 23 (LC) 23		2 S	 N2	9.14 m 📕	017 1 2	7.83 m St D(◆ N5 N3 N2 3 4 3	26.49 m (St) (I	1.0 m path N0 N4 N3	0		♦ N1 N2 N5	3.0 m	₩ 0.8 0.8	ļ	

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