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Collection of Plans for the Woburn Organic Manuring Experiment

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W/RN/12 - Woburn Organic Manuring 2000 - 2004

Rothamsted Research

Rothamsted Research (1966-1988) *W/RN/12 - Woburn Organic Manuring 2000 - 2004* ; Collection Of Plans For The Woburn Organic Manuring Experiment, pp 35 - 39

00/W/RN/12

Organic Manuring Experiment

36th year

Stackyard B

204

W. wheat

Sponsor P.R. Poulton

Block I

01	02	03	04	05	06	07	08
1 2	—	—	—	—	—	—	—
(1) (5)	(4) (3)	(-) (4)	(4) (-)	(3) (4)	(5) (3)	(4) (-)	(5) (4)
3 4	—	—	—	—	—	—	—
(Lc)	(Ln)	(St)	(Gm)	(Dg)	(Fd)	(Pt)	(Fs)
(Lc6)	(Lc6)	(Lc8)	(Lc8)	(Lc8)	(Lc8)	(Lc8)	(Lc8)
(4) (-)	(5) (2)	(3) (1)	(3) (5)	(1) (5)	(4) (1)	(5) (2)	(1) (2)
5 6	—	—	—	—	—	—	—
(2) (3)	(1) (-)	(5) (2)	(1) (2)	(-) (2)	(2) (-)	(1) (3)	(3) (-)

Block II

09	10	11	12	13	14	15	16
—	—	—	—	—	—	—	—
(-) (5)	(3) (1)	(2) (5)	(5) (2)	(-) (5)	(2) (3)	(1) (4)	(5) (3)
—	—	—	—	—	—	—	—
(Fd)	(Gm)	(Dg)	(Pt)	(Lc)	(Fs)	(St)	(Ln)
(4) (2)	(Lc8)	(Lc8)	(Lc8)	(Lc6)	(Lc6)	(Lc6)	(Lc6)
(-) (2)	(4) (2)	(-) (1)	(4) (3)	(3) (2)	(5) (1)	(-) (5)	(-) (4)
—	—	—	—	—	—	—	—
(1) (3)	(-) (5)	(3) (4)	(1) (-)	(4) (1)	(4) (-)	(2) (3)	(1) (2)

Block III

17	18	19	20	21	22	23	24
1 2	—	—	—	—	—	—	—
(3) (-)	(-) (2)	(3) (1)	(-) (3)	(4) (3)	(1) (5)	(3) (4)	(-) (4)
3 4	—	—	—	—	—	—	—
(St)	(Fs)	(Gm)	(Ln)	(Pt)	(Fd)	(Dg)	(Lc)
(Lc8)	(Lc8)	(Lc8)	(Lc6)	(Lc8)	(Lc8)	(Lc6)	(Lc6)
(2) (5)	(1) (5)	(4) (2)	(1) (5)	(1) (-)	(2) (4)	(5) (2)	(3) (2)
5 6	—	—	—	—	—	—	—
(1) (4)	(4) (3)	(5) (-)	(2) (4)	(2) (5)	(-) (3)	(-) (1)	(1) (5)
—	—	—	3m dis	card	—	—	—

Block IV

25	26	27	28	29	30	31	32
(5) (4)	(1) (4)	(2) (3)	(-) (4)	(1) (2)	(-) (3)	(3) (-)	(5) (1)
—	—	—	—	—	—	—	—
(Ln)	(Dg)	(Pt)	(Fs)	(Lc)	(Fd)	(St)	(Gm)
(Lc6)	(Lc8)	(Lc8)	(Lc8)	(Lc6)	(Lc6)	(Lc8)	(Lc8)
(-) (1)	(3) (-)	(4) (5)	(5) (1)	(4) (5)	(5) (2)	(2) (4)	(3) (-)
—	—	—	—	—	—	—	—
(3) (2)	(2) (5)	(-) (1)	(2) (3)	(-) (3)	(1) (4)	(1) (5)	(4) (2)

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)

(Pt) Peat annually 1965-71 then (Lc8) 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) 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 N/ha

Basal manure per ha

PKS: 21.8 kgP as TSP (106kg TSP/ha), 83 kgK and 36 kgS as K₂SO₄ (200 kg potassium sulphate) in autumn to stubble of preceding crop.

N: 96 kg N/ha (278 kg 34.5 %N) in spring.

Variety

Hereward dressed Sibutol sown at 380 seeds/m² on 4 October 1999

// No internal cross-paths

// Combine cut from whole 29.48m on Block III) plot length, two cuts per plot

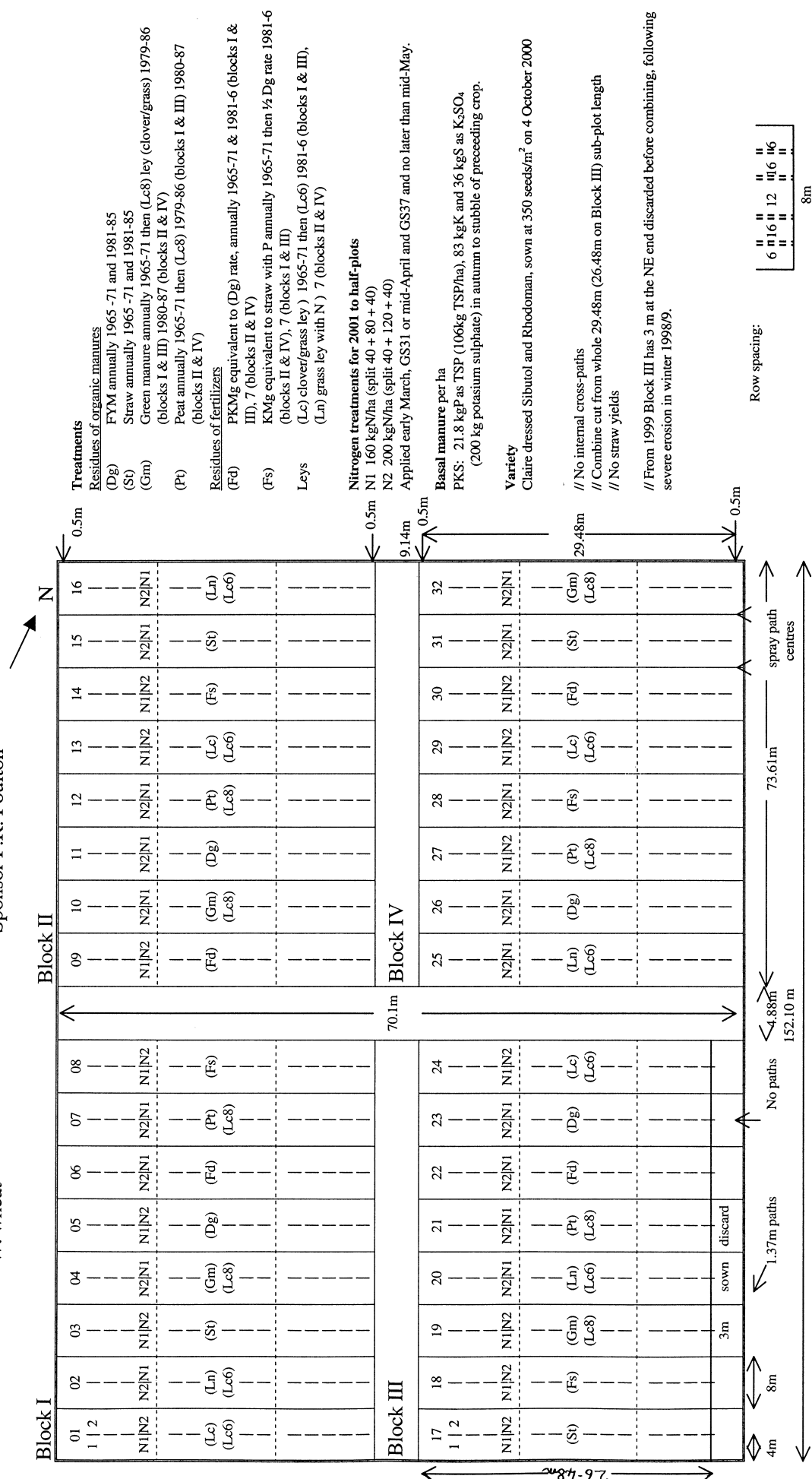
// No straw yields

// From 1999 Block III is 26.48m long. 3 m at the NE end is discarded following severe erosion in winter 1998/9

Row spacing: 8m

6 m 16 m 12 m 16 m 6 m

4m 8m 1.37m paths 4.88m 152.10 m 73.61 m 0.5m



02/W/RN/12

Organic Manuring Experiment

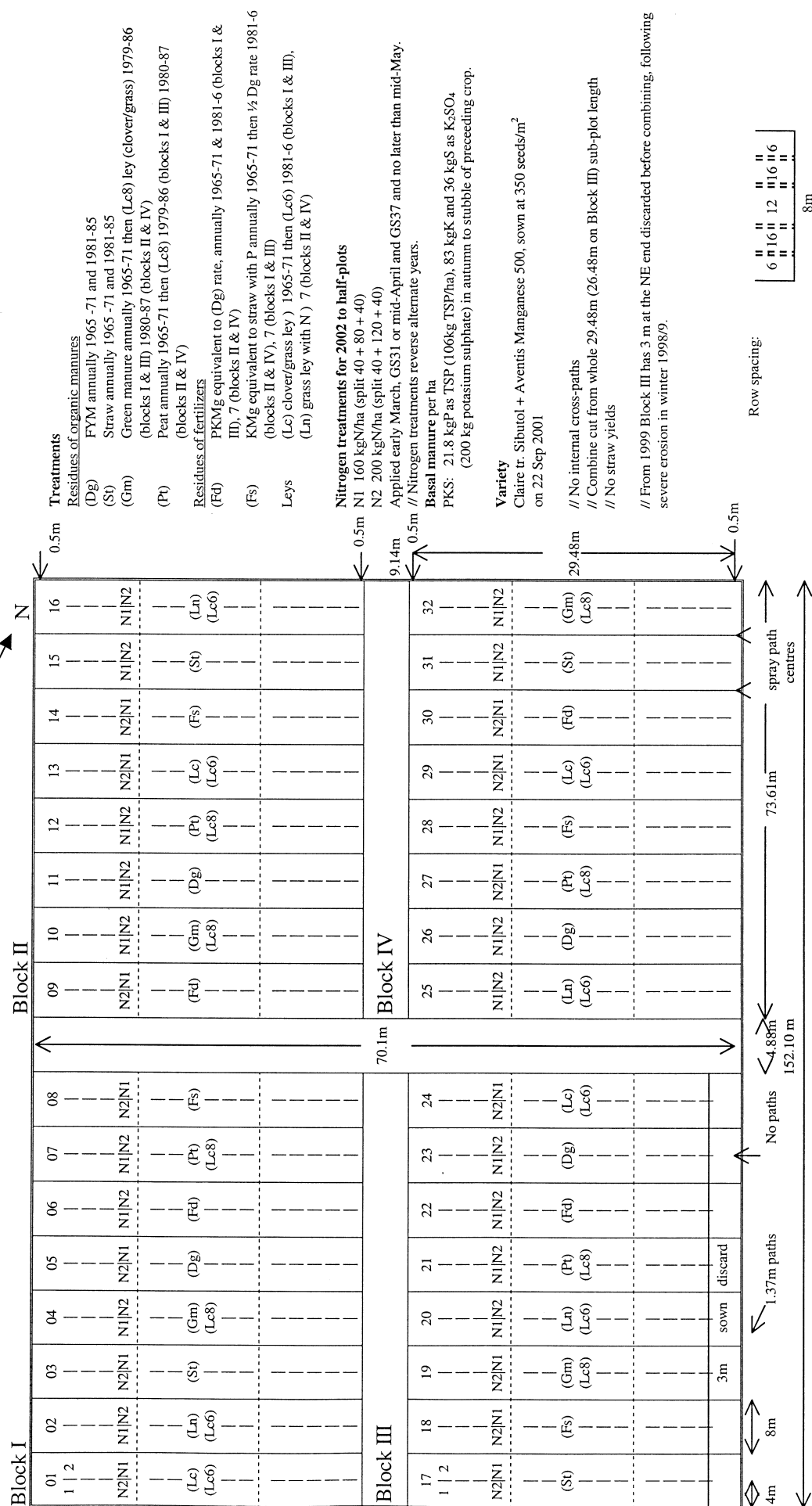
38th year

Stackyard B

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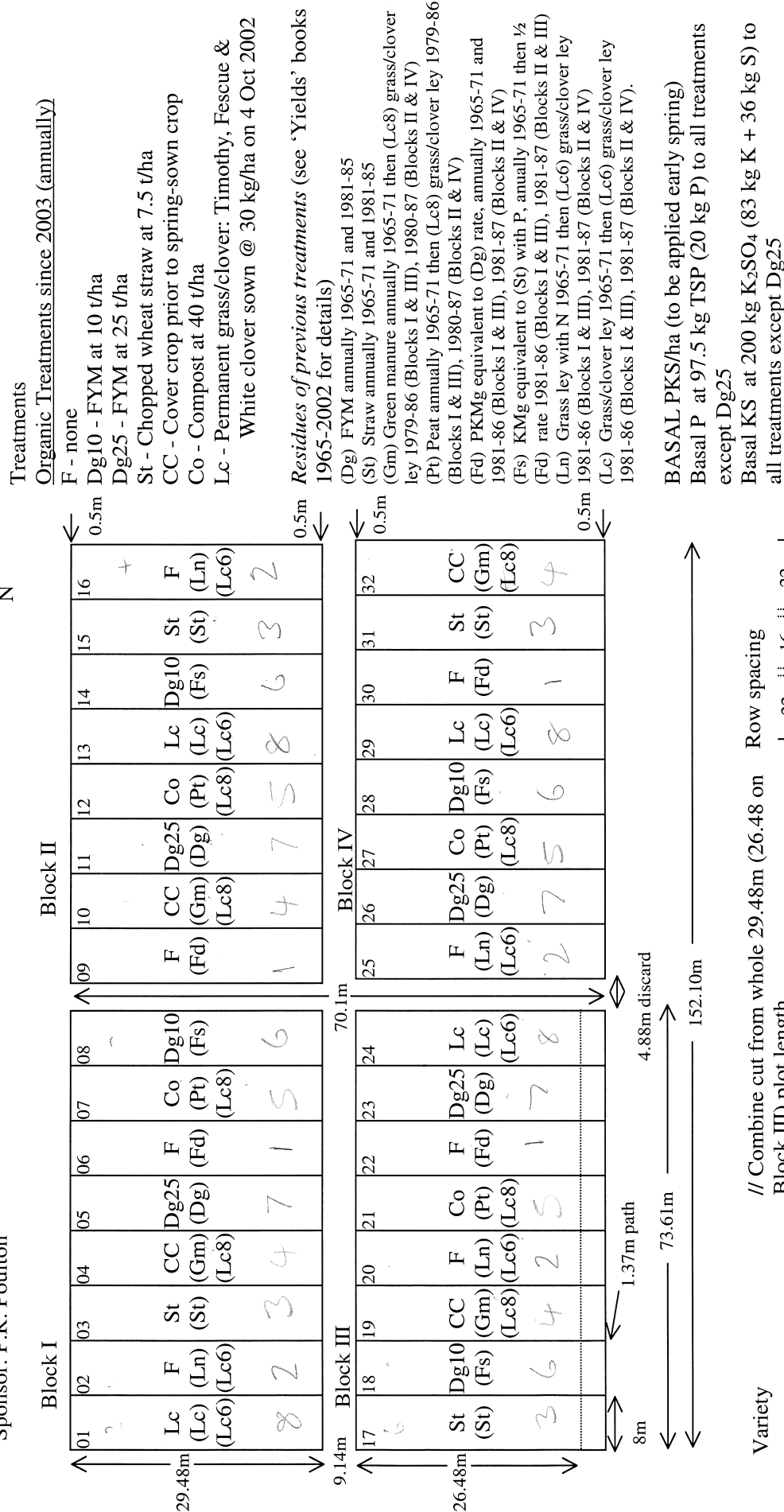
W. wheat

Sponsor P.R. Poulton



03/W/RN/12 Organic Manuring 39th year W. rye 203 Stackyard B

Sponsor: P.R. Poulton



Variety

Rye - Picasso Blend
tr, Baytan @ 98 kg/ha
on 9 Oct 2002

// Combine cut from whole 29.48m (26.48 on Block III) plot length
// Straw yields required; straw baled and removed
// From 1999 Block III has 3m at the NE end discarded before combining following severe erosion in winter 1998/99

Row spacing

22	16	22
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8m

D.P. Yeoman 7.11.02

