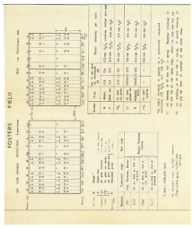
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Collection of Plans for the Fosters Ley-arable Experiment



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Fosters Ley-arable 1980-90

Rothamsted Research

Rothamsted Research (1949-1990) *Fosters Ley-arable 1980-90 ;* Collection Of Plans For The Fosters Ley-Arable Experiment, pp 32 - 42

ROTHAMSTED LEY-ARABLE 32nd YEAR 80/R/RN/2 FOSTERS 1980

SPONSORS: Blocks 1–4 A E Johnston. Blocks 5–12 D.B. Slope

CROPPING

WHEAT (Blocks 1+3, 5+7)

Flanders Test N

-, 1, 2, 3. None, 50, 100, 150 kgN/ha (None, 45, 88, 134 lbN/ac)

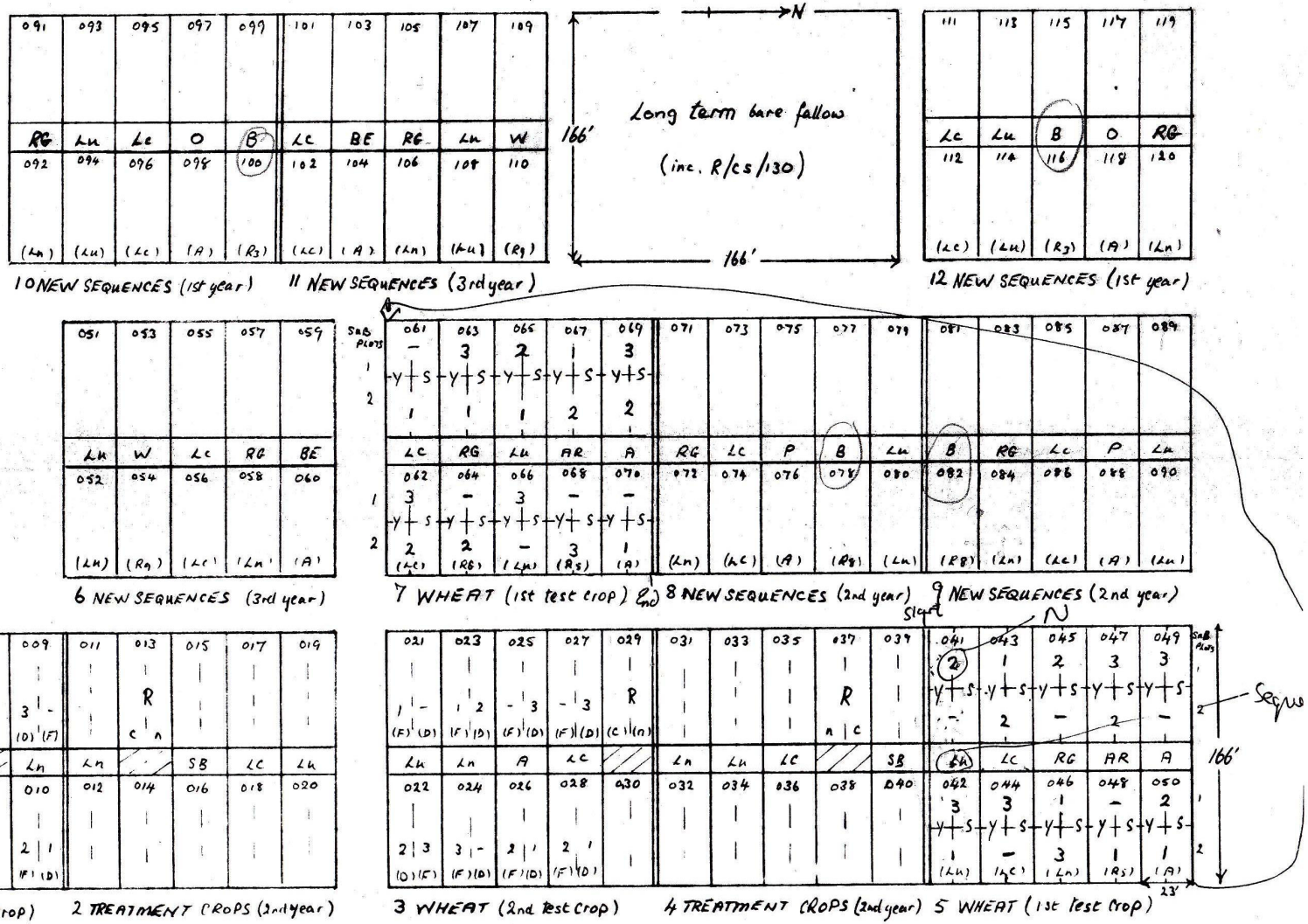
Y, S. Yield, Sample area.

NEW SEQUENCES (Blocks 6, 8, 9, 10, 11, 12)

Lu	Lucerne vertus
Lc	Grass/clover
RG	Perennial Ryegrass
W	W Wheat, Flanders
BE	Beans
B	Barley
O	Oats
P	Potatoes

TREATMENT CROPS (Blocks 2+4)

Lu	Lucerne
Ln	Grass Ley
Lc	Grass/clover/ley
R	Reseeded grass
SB	Sugar beet



NOTE: R_3, R_9 etc refers to year that reseeded (R) grass first under arable crop (1963, 1969 etc.)

(F), (D): None, Dung (residual treatments); C, n None, N + K top dressed in spring and after each cut except the last.

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ROTHAMSTED LEY-ARABLE 33rd YEAR 81/R/RN/2 FOSTERS 1981

Sponsors: Blocks 1–4 A.E. Johnston. Blocks 5–12 D.B. Slope

CROPPING

WHEAT (Blocks 1, 3, 5, 6, 7, 11.)

Flanders Test N

-, 1, 2, 3, None 50, 100, 150 kg N/ha
(None 45, 89, 134 lb N/ha)

Y, S. yield, sample areas.

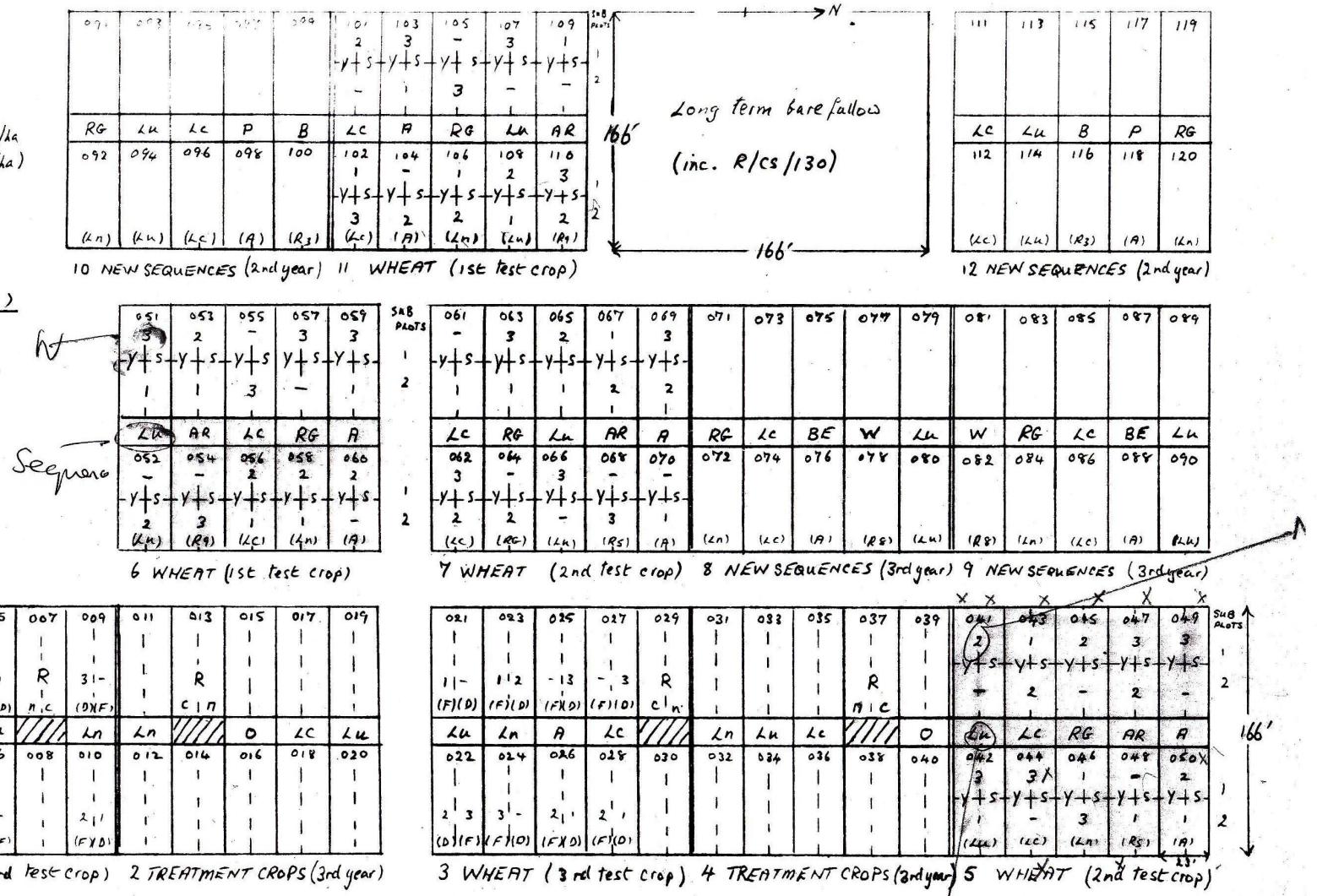
Sown: 8 October

NEW SEQUENCES (Blocks 8, 9, 10, 12)

Lu	Lucerne vertus
Lc	Grass/clover
RG	Perennial Ryegrass
W	W. Wheat, Flanders
BE	Beans
B	Barley
P	Potatoes

TREATMENT CROPS (Blocks 2, 4)

Lu	Lucerne
Ln	Grass/Ley
Lc	Grass/clover/Ley
R	Reseeded grass
O	Oats



NOTE: R_3, R_9 etc refers to year that reseeded (R) grass first under arable crop (1963, 1969 etc)
(F), (D): None, F.Y.m. (Residual treatments); C, N, None N + K top dressed in Spring and after each cut except the last

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ROTHAMSTED LEY-ARABLE 34th YEAR 82/R/RN/2 FOSTERS 1982

Sponsors: Blocks 1–4 A.E. Johnston, Blocks 5–12 D.B. Slope

CROPPING

WHEAT (Blocks 5, 6, 7, 8, 9, 11.)

Flanders Test N

-, 1, 2, 3. None, 50, 100, 150 kgN/ha
(None, 45, 89, 134 lbN/ac

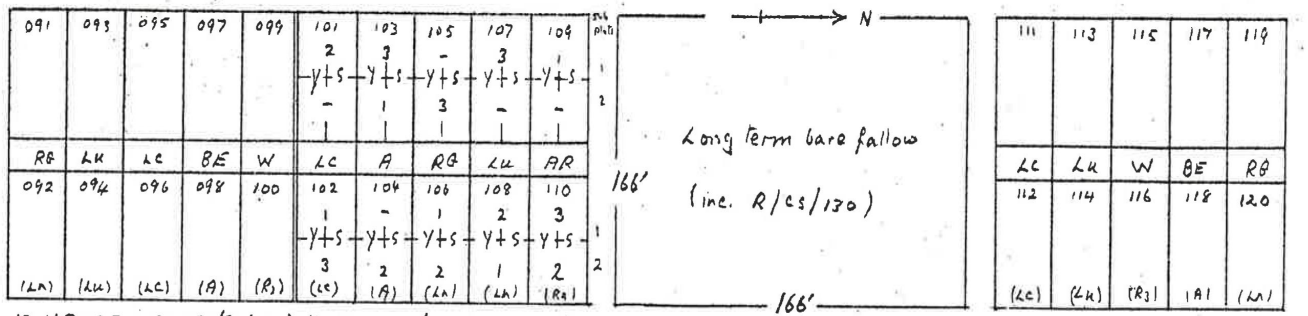
Y, S. Yield, Sample areas

NEW SEQUENCES

Lu Lucerne · Vertus
Lc Grass/Clover
RG Perennial Ryegrass
W W. Wheat – Flanders
BE Beans

TREATMENT CROPS (Blocks 1 & 3)

Lu Lucerne
Ln Grass/Ley
Lc Grass/clover Ley
R Reseeded grass
H 1st year Hay



10 NEW SEQUENCES (3rd year) 11 WHEAT (2nd test crop) 12 NEW SEQUENCES (3rd year)

6 WHEAT (2nd test crop) 7 WHEAT (3rd test crop) 8 WHEAT (1st test crop) 9 WHEAT (1st test crop)

1 TREATMENT CROPS (1st year) 2 POTATOES (1st test crop) 3 TREATMENT CROPS (1st year) 4 POTATOES (1st test crop) 5 WHEAT (3rd test crop)

NOTE: R_3, R_9 etc. refers to year that reseeded (R1 grass first under arable crop (1963, '69 etc.)
(F), (D). None, Fym (residual treatments); C, n, None NK top dressed in Spring and after each cut except the last

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ROTHAMSTED LEY - ARABLE 35th YEAR 83/R/RN/2 FOSTERS 1983

Sponsors: Blocks 1-4 A. E. Johnston. Blocks 5-12 D. B. Slope

CROPPING

WHEAT (Blocks 5, 6, 7, 8, 9, 10, 11, 12)

Flanders Test N

-, 1, 2, 3. None, 50, 100, 150 kg N/ha

(None, 45, 89, 134 lb N/ac)

Y, S: Yield, Sample areas

Sown on 11 November

TREATMENT CROPS (Blocks 1 & 3)

Lu Lucerne

Ln Grass ley

Lc Gras clover ley

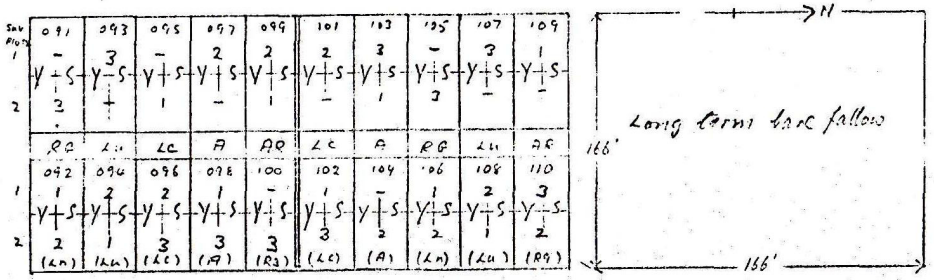
R Reseeded ley

SB Sugar beat

Test Crops Blocks 2 & 4

Wheat Flanders

Sown on 18 November



10 WHEAT (1st test crop) 11 WHEAT (3rd test crop) 12 WHEAT (1st test crop)

6 WHEAT (3rd test crop) 7 WHEAT (4th test crop) 8 WHEAT (2nd test crop) 9 WHEAT (2nd test crop)

1 TREATMENT CROPS (2nd year) 2 WHEAT (2nd test crop) 3 TREATMENT CROPS (2nd year) 4 WHEAT (2nd test crop) 5 WHEAT (4th test crop)

166'

NOTE: R3, R9 etc. refers to the year that reseeded (R) grass first under arable crop (1963, 1969 etc.)

(F), (D): None, FYM (residual treatments); c, n, NK top dressed in Spring and after each cut except the last.

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ROTHAMSTED LEY-ARABLE 36th YEAR 84/R/RN/2 FOSTERS 1984

Sponsors: Blocks 1-4 A.E. Johnston, Blocks 6, 8, 9, 11 R.I. Gutteridge

CROPPING

W. WHEAT (Blocks 6, 8, 9, 11), sown 18 October
Flanders Test N
-, 1, 2, 3. None 50, 100, 150 kgN/ha
(None 45, 89, 134 lbN/ac)

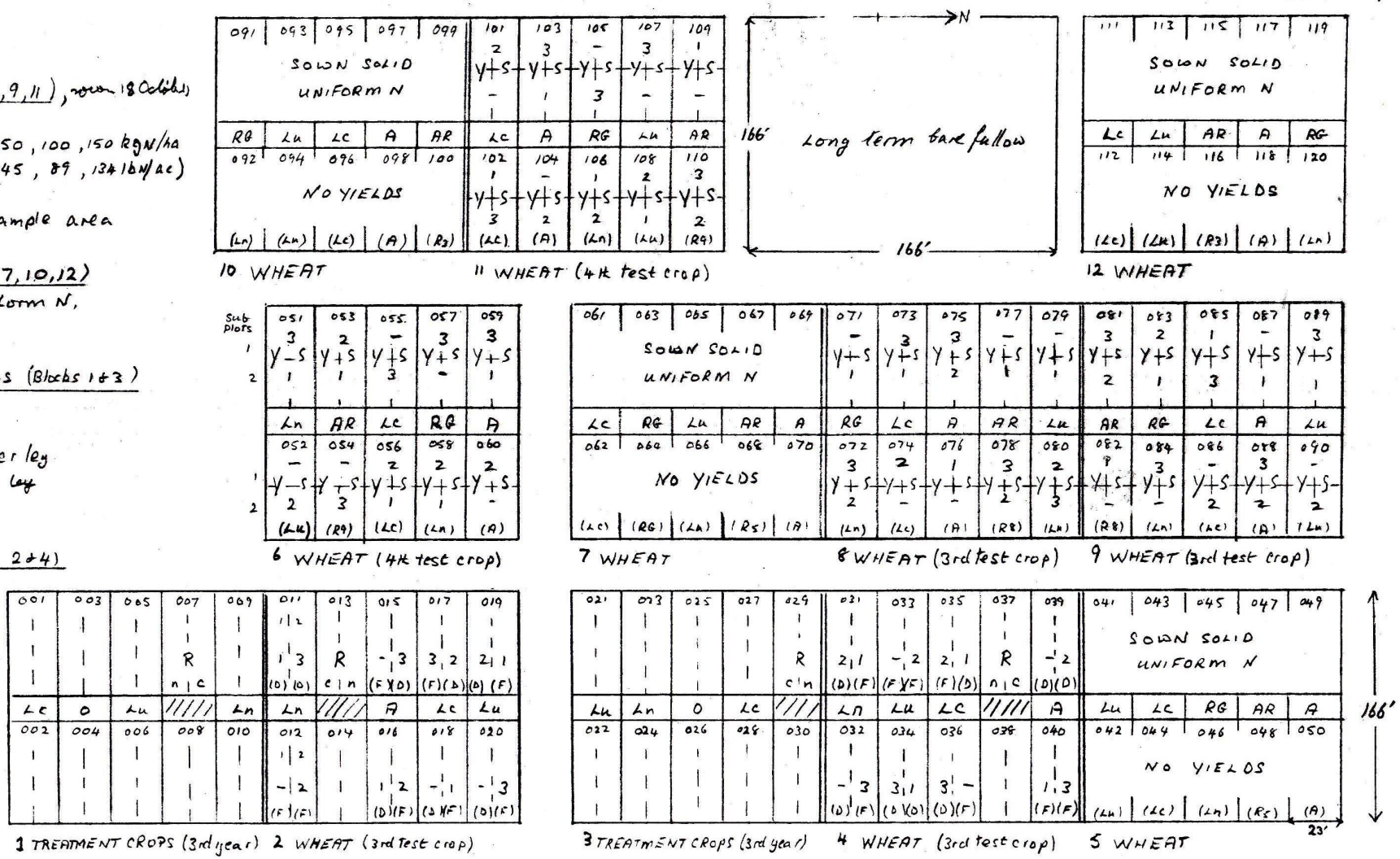
Y, S Yield, sample area

WHEAT (Blocks 5, 7, 10, 12)
Sown Solid, uniform N,
NO yields.

TREATMENT CROPS (Blocks 1 & 3)

Lu	Lucerne
Ln	Grass ley
Lc	Grass clover ley
R	Reseeded ley
O	Oats

Test CROPS (Blocks 2 & 4)
WHEAT Flanders
Sown 18 October



NOTE: R3, R9 etc. refers to the year that reseeded (R) grass first under arable crop (1963, 1969 etc.)
(F), (D). None, FYm (residual treatments); c, n. None, NK top dressed in spring after each cut except the last.

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g dd

ROTHAMSTED LEY-ARABLE 37th YEAR FOSTERS 1985

85/R/RN/2

Sponsors: Blocks 1–4 A.E. Johnston, Blocks 8+9 R

CROPPING

W. Wheat blocks 8 + 9
Flanders, sown at 170 kg/ha (191 kg/ha) on 2 Nov. (Lu)
Test N:
- 1, 2, 3, None, 50, 100, 150 kg N ha^{-1}
(None, 145, 89, 134 lb ac^{-1})

Y, S, yield, sample area

W. Wheat blocks 5, 6, 7, 10, 11 & 12.
Sown Solid, uniform N, No yields. Sown at 170 kg/ha (191 kg/ha) on 5 Nov (5, 6, 7) & 12 Nov (10, 11, 12).

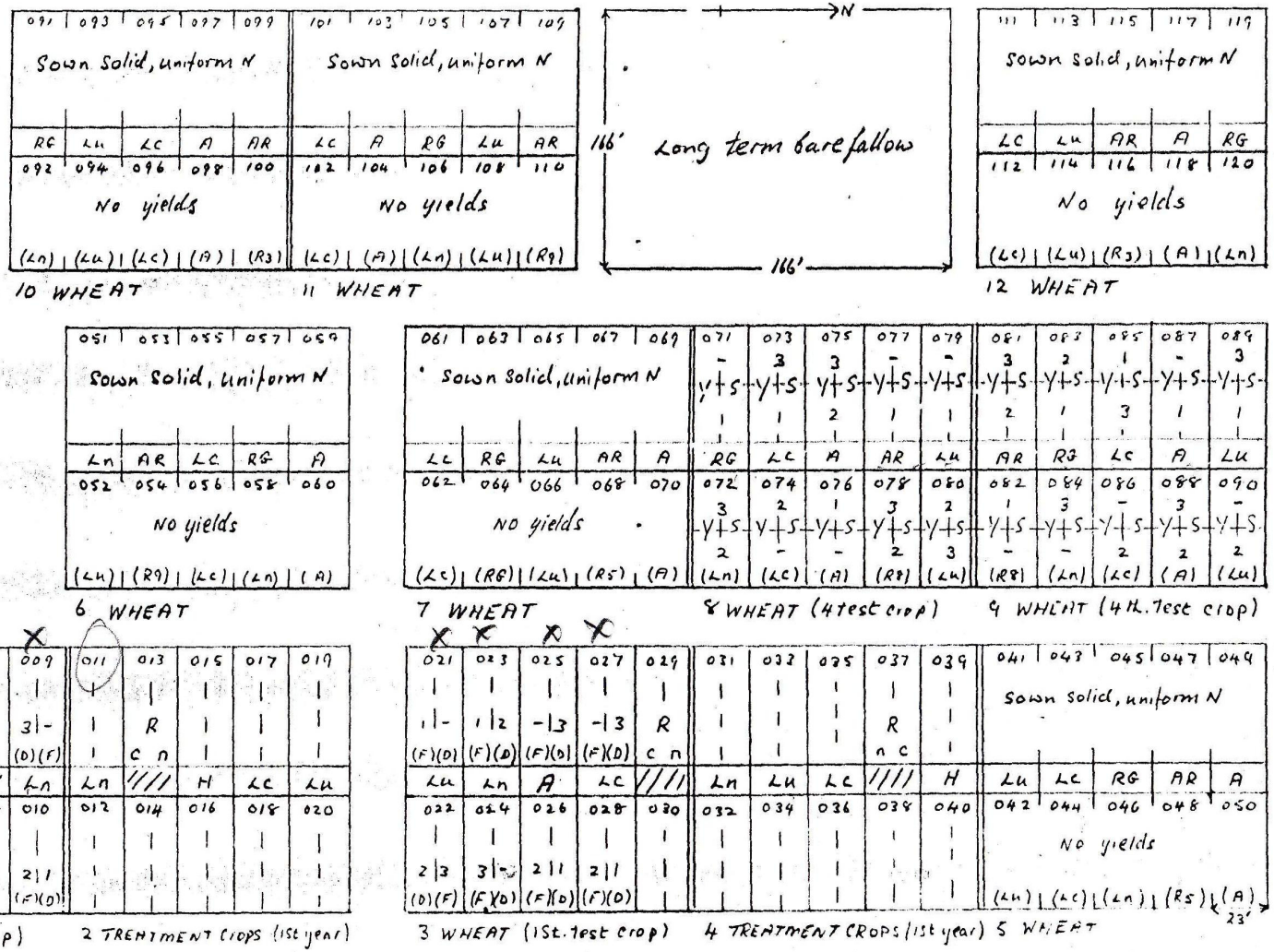
TREATMENT CROPS blocks 2 + 4

Lu	Lucerne
Ln	Grass ley
Lc	Grass/clover ley
R	Reseeded grass
H	1 year hay

TEST CROPS blocks 1 + 3

W. Wheat Flanders, sown at 170 kg/ha (191 kg/ha) on 2 November
NOTE: Test crop w. wheat replaces potatoes

// D.S. Jenkinson to cover some plots before Nitrogen application on blocks 1 + 3, and requires notice then and before harvest



NOTE: R3, R9 etc. refers to the year that reseeded (R) grass first under arable crop (1963, 1969 etc.)
(F), (D) None, FYM (residual treatments) c, n, None, NK top dressed in spring after each cut except the last

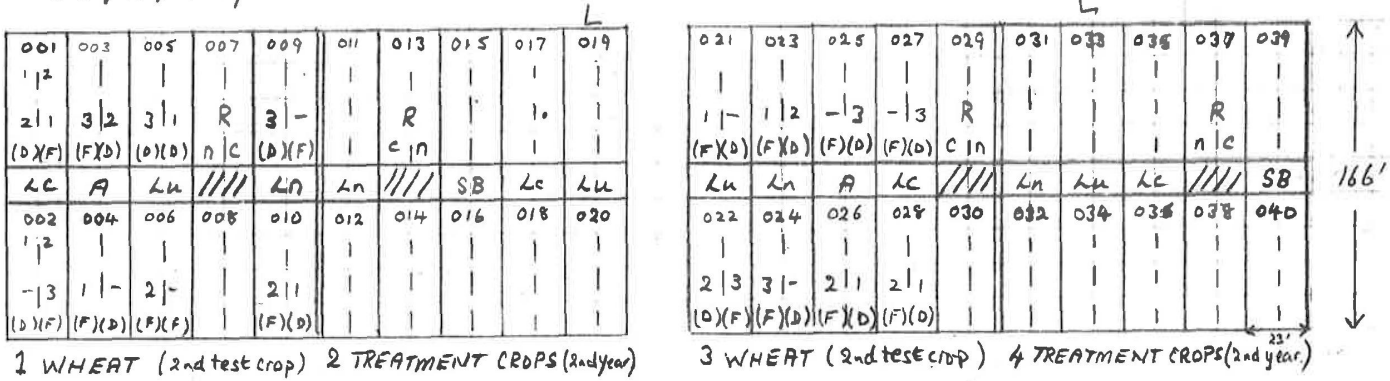
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ROTHAMSTED LEY-ARABLE (MUSEUM PLOTS) 38th YEAR FOSTERS 1986

86/R/RN/2

→ N

Sponsor: A. E. Johnston



1 WHEAT (2nd test crop) 2 TREATMENT CROPS (2nd year)

3 WHEAT (2nd test crop) 4 TREATMENT CROPS (2nd year)

CROPPING

TREATMENT CROPS Blocks 2+4

Lu Lucerne
Ln Grass ley
Lc Grass/clover ley
R Reseeded grass
SB Sugar beet

TEST CROPS Blocks 1+3

Winter Wheat, sown 10 October
Avalon

Notes: (F), (D), None, FYM (residual treatments): c, n, None, NK top dressed in Spring + after each cut except the last.

NOTE: Crop sequence blocks (old blocks 5-10) all to be sown solid, uniform N, no yields.
Variety Avalon

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Rothamsted Ley Arable 39th year Forker 1987

87/R/EN/2

Sponsor: A E Johnston

TREATMENTS

Rotations 3, 4, 6 test crops:

A A arable
Lc Clover/ryegrass, cut
Ln ryegrass ley with N
Lu Lucerne
R Rotational grass

Blocks 1 & 4 contain fresh tests in a sequence of three crops of w. wheat (A arable: 1987–mid October)

Blocks 5 to 12 test residual effects in barley, Klaxon – yields taken from northern half of each plot only

091	093	095	097	099	101	103	105	107	109
Ln	Lu	Lc	A	R	Lc	A	Ln	Lu	R

10. S. BARLEY 5th test crop 11. S. BARLEY 7th test crop

111	113	115	117	119
Lc	Lu	R	A	Ln

12. S BARLEY 5th test crop

051	053	055	057	059
Lu	R	Lc	Ln	A

6. S BARLEY 7th test crop

061	063	065	067	069	071	073	075	077	079	081	083	085	087	089
Lc	R	Lu	R	A	Ln	Lc	A	R	Lu	R	Ln	Lc	A	Lu

7. S. BARLEY 8th test crop 8. S. BARLEY 6th test crop 9. S BARLEY 6th test crop

001	003	005	007	009	011	013	015	017	019
2:1 (D)(F)	3:2 (F)(D)	3:1 (D)(D)	R n:c	3:- (D)(F)		R c:n			
Lc	A	Lu	////	Ln	Ln	////	O	Lc	Lu
002	004	006	008	010	012	014	016	018	020
-:3 (D)(F)	1:- (F)(D)	2:- (F)(F)		2:1 (F)(D)					

1. W. WHEAT 3rd test crop 2. TREATMENT CROPS 3rd year

021	023	025	027	029	031	033	035	037	039	041	043	045	047	049
1:- (F)(D)	1:2 (F)(D)	-:3 (F)(D)	-:3 (F)(D)	R c:n				R n:c						
Lu	Ln	A	Lc	////	Ln	Lu	Lc	////	O	Lu	Lc	Ln	R	A
022	024	026	028	030	032	034	036	038	040					
2:3 (D)(F)	3:- (F)(D)	2:1 (F)(D)	2:1 (F)(D)											

3. W WHEAT 3rd test crop 4. TREATMENT CROPS 3rd year 5. S BARLEY 8th test crop

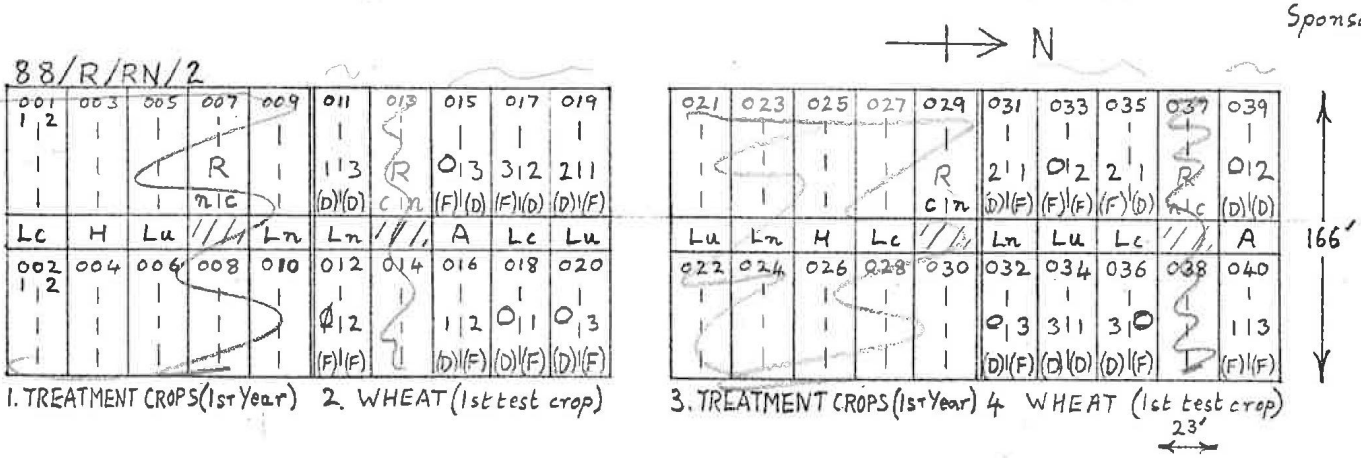
166' 23'

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ROTHAMSTED LEY ARABLE (MUSEUM PLOTS) 40TH YEAR FOSTERS 1988

Sponsor: A.E. Johnston

88/R/RN/2



CROPPING

TREATMENT CROPS blocks 1 & 3

- Lu Lucerne
- Ln Grass Ley
- Lc Grass/clover Ley
- R Reseeded grass
- H 1 year Hay

TEST CROPS blocks 2 & 4

Winter Wheat: Avalon, sown, 5 Oct, 87.

N TREATMENTS TO WHEAT.

- — None
- 1 50 Kg N ha^{-1}
- 2 100 ..
- 3 150 ..

Notes: (F), (D): None, FYM (residual treatments).
c, n: None, NK top dressed in Spring & after each cut except the Last.

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Sponsor: A.E. Johnston, P.R. Poulton

89/R/RN/2

001	003	005	007	009	011	013	015	017	019
1 | 2									
			R		1 | 3	R	-| 3	3 | 2	2 | 1
			n | c		c | n	(F)|(D)	(F)|(D)	(D)|(F)
Lc	Sb	Lu	///	Ln	Ln	///	A	Lc	Lu
002	004	006	008	010	012	014	016	018	020
1 | 2									
					-| 2		1 | 2	-| 1	-| 3
					(F)|(F)		(D)|(F)	(D)|(F)	(D)|(F)

1. TREATMENT CROPS (2nd Year) 2. WHEAT (2nd test crop)



021	023	025	027	029	031	033	035	037	039
				R	2 | 1	-| 2	2 | 1	R	-| 2
				c | n	(D)|(F)	(F)|(F)	(F)|(D)	n | c	(D)|(D)
Lu	Ln	Sb	Lc	///	Ln	Lu	Lc	///	A
022	024	026	028	030	032	034	036	038	040
					-| 3	3 | 1	3 | -		1 | 3
					(D)|(F)	(D)|(D)	(D)|(F)		(F)|(F)

166′

3. TREATMENT CROPS (2nd Year) 4 WHEAT (2nd test crop)

23′

CROPPING

TREATMENT CROPS blocks 1 & 3

- Lu Lucerne
- Ln Grass Ley
- Lc Grass/clover Ley
- R Reseeded grass
- Sb Sugar beet

TEST CROPS blocks 2 & 4

Winter Wheat: Avalon,
sown: 27 Oct

N TREATMENTS TO WHEAT.

- — None
- 1 50 Kg N ha⁻¹
- 2 100 ..
- 3 150 ..

Notes: (F), (D): None, FYM (residual treatments).
c, n: None, NK top dressed in Spring & after each cut except the last.

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Sponsor: P.R. Poulton

90 R/RN/2

→ N

001	003	005	007	009	011	013	015	017	019
1 2									
			R		113	R	-13	312	211
			n1c		(D)|(D)	c1n	(F)|(D)	(F)|(D)	(D)|(F)
Lc	D	Lu	///	Ln	Ln	///	A	Lc	Lu
002	004	006	008	010	012	014	016	018	020
1 2									
					-12		112	-11	-13
					(F)|(F)		(D)|(F)	(D)|(F)	(D)|(F)

1. TREATMENT CROPS (3rd Year) 2. WHEAT (3rd test crop)

021	023	025	027	029	031	033	035	037	039
				R	211	-12	211	R	-12
				c1n	(D)|(F)	(F)|(F)	(F)|(D)	n1c	(D)|(D)
Lu	Ln	O	Lc	///	Ln	Lu	Lc	///	A
022	024	026	028	030	032	034	036	038	040
					-13	311	31-		113
					(D)|(F)	(D)|(D)	(D)|(F)		(F)|(F)

166′

3. TREATMENT CROPS (3rd Year) 4 WHEAT (3rd test crop)

23′

CROPPING

TREATMENT CROPS blocks 1 & 3

- Lu Lucerne
- Ln Grass Ley
- Lc Grass/clover Ley
- R Reseeded grass
- O Oats

TEST CROPS blocks 2 & 4

Winter Wheat; Avalon
sown: 4 Oct

N TREATMENTS TO WHEAT.

- — None
- 1 50 Kg N ha⁻¹
- 2 100 ..
- 3 150 ..

Notes: (F), (D): None, FYM (residual treatments).
c, n: None, NK top dressed in Spring & after each cut except the last.

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