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ROTHAMSTED
RESEARCH

Collection of Plans for the Highfield Ley-arable Experiment

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Highfield Ley-arable 1980-90

Rothamsted Research

Rothamsted Research (1949-1990) *Highfield Ley-arable 1980-90* ; Collection Of Plans For The Highfield Ley-Arable Experiment, pp 32 - 43

1980

HIGHFIELD

80/R/R/N/1

32nd YEAR

LE1 - 11/10/82

KOTHAN'S ED

SPONSORS: Blocks 1-4 A.C. Tomlinson, 5-12 D.A. Slope

CROPPING

WHEAT (Blocks 1+4, 5+8)

Flanders, Test N

1, 2, 3. None, 50, 100, 150 kg N/ha (-15, 5, 55, 134 kg N/ha)

Y.S. Yield, Same as Areas

NEW SEQUENCES (Blocks 6, 7, 10, 11, 12)

Lk Lucerne, v. r. f. v. s.

Lc Grass / clover

Rg Perennial Ryegrass

Rgt as Rg but not ploughed after 3 years

Bf Beans, m. inden

B Barley

O Oats

P Potatoes Pentland Crown (00)

W Wheat Flanders

TREATMENT CROPS (Blocks 9+3)

Lk Lucerne

Lm Grass / ley

Lc Grass / clover / ley

Sb Sugar beet

R Reseeded grass

G Old grass

[c] Ardo - old grass

133	135	137	139	141	143
RB	Rgt	Bf	W	Lk	Lc
134	136	138	140	142	144
(Lm)	(G)	(A)	(Rg)	(Lk)	(Lc)

12 NEW SEQUENCES (3rd year)

097	099	101	103	105	107	109	111	113	115	117	119
W	RG	Lc	Bf	Rgt	Lk	O	Rgt	Lk	Lc	B	RG
098	100	102	104	106	108	110	112	114	116	118	120
(Rg)	(Lk)	(Lc)	(A)	(G)	(Lm)	(A)	(G)	(Lm)	(Lc)	(Rg)	(Lm)

9 NEW SEQUENCES (2nd year)

121	123	125	127	129	131
O	RG	B	Lc	Rgt	Lk
122	124	126	128	130	132
(A)	(Lm)	(Rg)	(Lc)	(G)	(Lm)

11 NEW SEQUENCES (1st year)

049	051	053	055	057	059	061	063	065	067	069	071
W	Lc	Rgt	Bf	R	R	R	Lk	Lc	P	Rgt	B
050	052	054	056	058	060	062	064	066	068	070	072
(Lm)	(Lc)	(G)	(Lm)	(A)	(Rg)	(Lm)	(Lk)	(Lc)	(A)	(G)	(R)

5 WHEAT (1st best crop)

073	075	077	079	081	083	085	087	089	091	093	095
Rgt	Lc	B	P	RG	Lk	Lk	AR	A	Rgt	Lc	RG
074	076	078	080	082	084	086	088	090	092	094	096
(G)	(Lc)	(Rg)	(A)	(Lm)	(Lm)	(Lm)	(Lm)	(A)	(G)	(Lc)	(Lm)

7 NEW SEQUENCES (2nd year)

085	087	089	091	093	095
W	Lc	B	Lc	Rgt	Lc
086	088	090	092	094	096
(Lm)	(Rg)	(A)	(G)	(Lc)	(Lm)

8 WHEAT (1st best crop)

001	003	005	007	009	011	013	015	017	019	021	023
G	R	R	Lc	Lc	Lc	Lc	Lc	Lc	Lc	Lc	Lc
002	004	006	008	010	012	014	016	018	020	022	024
(Lm)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)

1 WHEAT (2nd best crop)

025	027	029	031	033	035	037	039	041	043	045	047
Lk	Sb	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk
026	028	030	032	034	036	038	040	042	044	046	048
(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)	(Lc)

3 TREATMENT CROPS (3rd year)

049	051	053	055	057	059	061	063	065	067	069	071
G	R	R	Lc	Lc	Lc	Lc	Lc	Lc	Lc	Lc	Lc
050	052	054	056	058	060	062	064	066	068	070	072
(Lm)	(Lc)	(Lc)	(Lm)	(A)	(Rg)	(Lm)	(Lk)	(Lc)	(A)	(G)	(Lm)

4 WHEAT (3rd best crop)

NOTE: R, G & etc. refers to year that reseeded (R) and old grass (G), first under arable crop (163 v 162 etc.) (F) (D): None, Dung (residual treatments), C, G, None, N & K top dress in spring v after each cut except the last.

ROTHAMSTED KEY-ARABLE 33rd. YEAR. 81/R/RN/1 HIGHFIELD 1981

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

CROPPING

WHEAT (Blocks 10, 4, 5, 8, 9, 12)
Flanders, Test N
- 1, 2, 3, None, 50, 100, 150 kg N/ha
(None, 45, 89, 184 kg N/ha)
Y, S. yield, Sample areas
Sown: 8 Octobers
NEW SEQUENCES (Blocks 6, 7, 10, 11)

Sub Plot	133	135	137	139	141	143
1	V+S	V+S	V+S	V+S	V+S	V+S
2	1	2	3	1	3	1
Sub Plot	134	136	138	140	142	144
1	V+S	V+S	V+S	V+S	V+S	V+S
2	1	2	3	1	3	1

12 WHEAT (1st Test Crop)
13 WHEAT (1st Test Crop)
14 WHEAT (1st Test Crop)

9 WHEAT (1st Test Crop)
10 NEW SEQUENCES (2nd year)
11 NEW SEQUENCES (2nd year)

Sub Plot	097	099	101	103	105	107	109	111	113	115	117	119
1	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S
2	1	2	3	1	3	1	3	1	3	1	3	1

Sub Plot	073	075	077	079	081	083	085	087	089	091	093	095
1	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S
2	1	2	3	1	3	1	3	1	3	1	3	1

5 WHEAT (2nd Test Crop)
6 NEW SEQUENCES (3rd year)
7 NEW SEQUENCES (3rd year)
8 WHEAT (2nd Test Crop)
3 TREATMENT CROPS (3rd year)
4 WHEAT (3rd Test Crop)

Sub Plot	049	051	053	055	057	059	061	063	065	067	069	071
1	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S
2	1	2	3	1	3	1	3	1	3	1	3	1

Sub Plot	025	027	029	031	033	035	037	039	041	043	045	047
1	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S	V+S
2	1	2	3	1	3	1	3	1	3	1	3	1

12 WHEAT (1st Test Crop)
13 WHEAT (1st Test Crop)
14 WHEAT (1st Test Crop)

1 WHEAT (3rd Test Crop)
2 TREATMENT CROPS (3rd year)
3 TREATMENT CROPS (3rd year)
4 WHEAT (3rd Test Crop)

NOTE: R, G etc. refers to years reseeded (R) and old grass (G) first under arable crop (1983+1984 etc)
(F) (D) None, FYM (Residual treatments), C, N, None N+K top dressed in Spring, and after each cut except the last.

010

ROTHAMSTED LEY-ARABLE 34th YEAR 82/R/RN/1 HIGHFIELD 1982

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

CROPPING

153	137	141	143
3	1	1	-
Y+S	Y+S	Y+S	Y+S
1	2	3	1
RG	RR	LA	LS
134	136	140	144
3	3	2	2
Y+S	Y+S	Y+S	Y+S
3	2	-	3
(LN)	(R)	(LA)	(LC)

9 WHEAT (2nd. test crop)

099	101	103	105	107	109	111	113	115	117	119	
-	3	-	3	3	-	-	-	-	-	-	
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	
1	2	3	1	1	1	1	1	1	1	1	
RR	LC	R	RG+	LA	BE	RG	W	RG	LC	LA	
098	100	102	104	106	108	110	112	114	116	118	120
3	2	1	1	-	-	-	-	-	-	-	-
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	2	2	2	2	2	2	2	2	2
(RR)	(LN)	(LC)	(R)	(G)	(LA)	(R)	(LN)	(LC)	(R)	(LN)	(LA)

11 NEW SEQUENCES (3rd year)

121	123	125	127	129	131
BE	RG	W	LC	RG+	LA
122	124	126	128	130	132
(A)	(LN)	(R)	(LC)	(G)	(LA)

12 WHEAT (2nd test crop)

049	051	053	055	057	059
2	3	3	2	3	-
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	3	2	-	-	-
LC	RG+	RG	R	RR	RR
050	052	054	056	058	060
1	2	1	3	1	2
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	1	1	2	3	3
(LA)	(LC)	(LN)	(R)	(G)	(RR)

10 NEW SEQUENCES (3rd year)

073	075	077	079	081	083
3	-	3	-	-	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	1	2	2
RG+	LC	RR	R	RG	LA
074	076	078	080	082	084
-	3	1	2	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	2	2	3	1	1
(RR)	(LC)	(R)	(A)	(LN)	(LA)

8 WHEAT (3rd test crop)

085	087	089	091	093	095
2	-	1	2	-	-
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	3	2	3	2	3
LA	RR	R	RG+	LC	RR
086	088	090	092	094	096
1	2	3	-	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	1	-	1	1	2
(LA)	(RR)	(R)	(G)	(LC)	(LN)

5 WHEAT (2nd test crop)

001	003	005	007	009	011
1	2	-	-	-	-
G	R	-	-	-	-
1	1	-	-	-	-
LC	LA	LC	LN	H	LC
002	004	006	008	010	012
1	1	-	-	-	-
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	-	-	-
(LA)	(LC)	(LN)	(R)	(G)	(RR)

7 WHEAT (1st test crop)

025	027	029	031	033	035
-	-	-	-	-	-
(B)(F)	(F)(F)	(F)(D)	(D)(F)	(D)(D)	(D)(D)
1	1	1	1	1	1
LC	R	LN	LA	LA	LA
026	028	030	032	034	036
1	1	1	1	1	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(F)(D)	(D)(D)	(F)(D)	(F)(D)	(F)(D)	(F)(D)

4 TREATMENT CROPS (1st year)

037	039	041	043	045	047
-	-	-	-	-	-
LC	R	C	LN	LC	A
038	040	042	044	046	048
-	-	-	-	-	-
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(F)(D)	(D)(D)	(F)(D)	(F)(D)	(F)(D)	(F)(D)

1 TREATMENT CROPS (1st year)

000	001	002	003	004	005
-	-	-	-	-	-
LC	LA	LC	LN	H	LC
006	007	008	009	010	011
-	-	-	-	-	-
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(F)(D)	(D)(D)	(F)(D)	(F)(D)	(F)(D)	(F)(D)

3 POTATOES (1st test crop)

021	022	023	024
1	1	1	1
Y+S	Y+S	Y+S	Y+S
1	1	1	1
(F)(D)	(D)(D)	(F)(D)	(F)(D)

2 POTATOES (1st test crop)

013	015	017	019	021	023
1	1	1	1	1	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(F)(D)	(F)(D)	(D)(F)	(D)(F)	(F)(D)	(F)(D)

NEW SEQUENCES (Blocks 10+11)

LA Lucerne, Clover
 LC Grass / Clover
 RG Perennial Ryegrass
 RG+ AS RG, but not ploughed after 3 years
 BE Beans
 W Wheat - Flankers

TREATMENT CROPS (Blocks 1+4)

LA Lucerne
 LN Grass ley
 LC Grass / Clover ley
 R Reseeded grass
 G Old grass
 [G] Pseudo old grass
 H 1 year hay

TEST CROP (Block 203)

Potato, Parland Corn
 -planted 22 April

NOTE: R₃+4 etc. refer to years recorded (R) and old grass (G) first under arable. Def (1963+1968 etc.)
 (F)(D) None; FYM (residual treatments); C, n, none No X top dressed in Spring, and after each cut except the last.

SEQUENCE

166'

1983

83/R/R/V/I

35th YEAR

LEY - ARABLE

ROTHAMSTED

Spencers: Block 5 - 4 of Johnston, Blocks 5-12 D.B. Stone

CROPPING

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

Flanders TEST N

1, 2, 3, None, 50, 100, 150 1/2 N/A

(None, 45, 89, 134 1/2 N/A)

Y/S, Yield, Sample Area

Sown on 11 November

must have been 1/25 - 17 November

133	135	137	139	141	143
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
1	2	1	1	1	1
2	3	3	3	3	3
RR	RR	RR	RR	RR	RR
134	136	138	140	142	144
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
1	2	1	1	1	1
2	3	3	3	3	3
RR	RR	RR	RR	RR	RR

12 WHEAT (3rd test crop)

097	099	101	103	105	107	109	111	113	115	117	119
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
098	100	102	104	106	108	110	112	114	116	118	120
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR

10 WHEAT (1st test crop)

121	123	125	127	129	131
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	2	2	2	2	2
RR	RR	RR	RR	RR	RR
122	124	126	128	130	132
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	2	2	2	2	2
RR	RR	RR	RR	RR	RR

11 WHEAT (1st test crop)

TREATMENT CROPS Blocks 1+4

- Lk Intense
- Ln Grass ley
- Lc Grass Clover ley
- R Reseeded grass
- G Old grass
- [G] Pseudo old grass
- SB Sugar beet

049	051	053	055	057	059	061	063	065	067	069	071
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
050	052	054	056	058	060	062	064	066	068	070	072
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR

5 WHEAT (4th test crop)

073	075	077	079	081	083	085	087	089	091	093	095
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
3	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
074	076	078	080	082	084	086	088	090	092	094	096
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	2	2	2	2	2	2	2	2	2	2	2
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR

7 WHEAT (2nd test crop)

025	027	029	031	033	035	037	039	041	043	045	047
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	2	2	2	2	2	2	2	2	2	2	2
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
026	028	030	032	034	036	038	040	042	044	046	048
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	2	2	2	2	2	2	2	2	2	2	2
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR

8 WHEAT (4th test crop)

001	002	005	007	009	011	013	015	017	019	021	023
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
003	004	006	008	010	012	014	016	018	020	022	024
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR

3 WHEAT (2nd test crop)

TEST CROP Blocks 2+3

Wheat: Flanders
Sown on 18 November

NOTE: RG+ pots are not shown
Direct drilled or blocks 6, 7,
10 & 11. Soil are ploughed and
conventional sown or direct
sown on 12.

001	002	005	007	009	011	013	015	017	019	021	023
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
003	004	006	008	010	012	014	016	018	020	022	024
Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S	Y/S
2	3	3	3	3	3	3	3	3	3	3	3
RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR

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

NOTE: R₁ + G₁ etc. refers to years reseeded (R₁ and old grass (G₁) first under arable crop (1963 + 1968 etc)
(F₁(D), None, FYM (residual treatments), G, N, None, N+K top dressed in Spring and 1/2R each cut except the last

ROTHAMSTED

LEY-FARABLE

36H YLNR

84/R/RN/1

HIGHFIELD

1984

Sponsors: Blocks 1-4 A.E. Johns-son, Blocks 6, 7, 9, 12, R.J. Gooding

CROPPING

WHEAT Blocks 6, 7, 9, 12

Flanders Test N

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

(None, 45, 87, 131 kg/ha)

Y, S, Yield, sample area.

WHEAT Blocks 5, 8, 10, 11

Sown solid uniform N

110 yields

133	135	137	139	141	143
-	3	1	-	1	-
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	-	1	3	1
RG	RG+	A	AR	LH	LC
134	136	138	140	142	144
3	1	3	3	2	2
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	-	2	2	-	3
(LN)	(GN)	(R)	(RN)	(LN)	(LC)

097	099	101	103	105	107
2	-	3	-	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	3	2	3	1	1
AR	RR	LC	A	RG+	LH
098	100	102	104	106	108
3	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	2	2	2
(RN)	(LN)	(LC)	(R)	(RG)	(LN)

121	123	125	127	129	131
-	-	-	-	-	-
SOWN SOLID	SOWN SOLID	SOWN SOLID	SOWN SOLID	SOWN SOLID	SOWN SOLID
UNIFORM N	UNIFORM N	UNIFORM N	UNIFORM N	UNIFORM N	UNIFORM N
A	RG	AR	LC	RG+	LH
122	124	126	128	130	132
-	-	-	-	-	-
NO YIELDS	NO YIELDS	NO YIELDS	NO YIELDS	NO YIELDS	NO YIELDS
(R1)	(LN)	(RG)	(LC)	(RG)	(LN)

TREATMENT CROPS Blocks 1+4

- LN lucerne
- LC Grass ley
- R Grass clover ley
- G Reseeded grass
- O Old grass
- [G] Pseudo old grass
- O Oats

TEST CROP Blocks 2+3

Wheat Flanders, 18 Oct 84

049	051	053	055	057	059
LH	LC	RG+	RS	A	AR
050	052	054	056	058	060
-	-	-	-	-	-
SOWN SOLID	SOWN SOLID	SOWN SOLID	SOWN SOLID	SOWN SOLID	SOWN SOLID
UNIFORM N	UNIFORM N	UNIFORM N	UNIFORM N	UNIFORM N	UNIFORM N
051	061	063	065	067	069
2	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	3	1	1
DE	LH	LC	A	RG+	AR
062	064	066	068	070	072
3	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	2	1	2	1
(LN)	(LC)	(LN)	(LN)	(LC)	(RN)

001	003	005	007	009	011
-	-	-	-	-	-
G	R	R	-	-	-
1	1	1	1	1	1
LC	LH	LH	O	LC	LC
002	004	006	008	010	012
1	1	1	1	1	1
1	1	1	1	1	1
(F1)	(F1)	(F1)	(F1)	(F1)	(F1)

013	015	017	019	021	023
1	1	1	1	1	1
R	213	312	211	211	G
1	1	1	1	1	1
C1N	(F1)	(F1)	(F1)	(F1)	C1N
014	016	018	020	022	024
1	1	1	1	1	1
1	1	1	1	1	1
(F1)	(F1)	(F1)	(F1)	(F1)	(F1)

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

073	075	077	079	081	083
3	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	2	2
RG+	LC	AR	A	RG	LH
074	076	078	080	082	084
-	3	1	2	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	2	2	3	1	-
(RG)	(LC)	(RN)	(R)	(LN)	(LN)

071	073	075	077	079	081
3	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	2	2
AR	LC	AR	A	RG	LH
072	074	076	078	080	082
1	3	1	2	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	2	2	3	1	-
(RN)	(LN)	(RN)	(R)	(LN)	(LN)

025	027	029	031	033	035
1	1	1	1	1	1
-13	-12	-11	R	[G]	21-
1	1	1	1	1	1
(F1)	(F1)	(F1)	C1N	(F1)	(F1)
026	028	030	032	034	036
1	1	1	1	1	1
1	1	1	1	1	1
(F1)	(F1)	(F1)	(F1)	(F1)	(F1)

029	031	033	035	037	039
1	1	1	1	1	1
1	1	1	1	1	1
LC	LH	LH	LH	LH	LH
040	042	044	046	048	050
1	1	1	1	1	1
1	1	1	1	1	1
(F1)	(F1)	(F1)	(F1)	(F1)	(F1)

041	043	045	047	049	051
1	1	1	1	1	1
1	1	1	1	1	1
LC	LH	LH	LH	LH	LH
052	054	056	058	060	062
1	1	1	1	1	1
1	1	1	1	1	1
(F1)	(F1)	(F1)	(F1)	(F1)	(F1)

3 WHEAT (P.W.W) 3rd test crop 4 TREATMENT CROPS (3rd year)

NOTE R3+66 etc. refers to years reseeded (R) and old grass (G) first under arable crop (1963 + 1968 etc.) (F1)(D), None, F+M (residual treatments). C, R, None, N + K 15p dressed in Spring and after each cut except the last.

ROTHAMSTED LEY ARABLE 37th YEAR HIGHFIELD 1985 9

Sponsors: Blocks 1-4 A.E. Johnston, Blocks 6 & 7 R.T. Gutteridge

85/R/R/N/1

CROPPING

W. wheat blocks 6+7
 Flanders sown at 1704/ha (114/ha) on 2 November
 TEST N
 1, 2, 3, None, 50, 100, 150 kg N/ha
 (None, 45, 89, 134 lb N/ac)
 V, S, Yield, sample area
 Wheat blocks 5, 8, 9, 10, 11+12
 Sown solid, uniform N
 No yields. Sown at 1704/ha (114/ha) on 2 November

133	135	137	139	141	143
Sown solid, uniform N					
RG	RB+	A	AR	L4	LC
134	136	138	140	142	144
No yields					
(LN)	(G)	(A)	(R)	(L4)	(LC)

097	099	101	103	105	107
Sown solid, uniform N					
AR	RG	LC	A	RB+	L4
098	100	102	104	106	108
No yields					
(R)	(LN)	(LC)	(A)	(RB)	(L4)

109	111	113	115	117	119
Sown solid, uniform N					
A	RB+	L4	LC	AR	RG
110	112	114	116	118	120
No yields					
(A)	(G)	(L4)	(LC)	(R)	(LN)

121	123	125	127	129	131
Sown solid, uniform N					
A	RG	AR	LC	RB+	L4
122	124	126	128	130	132
No yields					
(A)	(LN)	(R)	(LC)	(G)	(LN)

TREATMENT CROPS blocks 2+3
 L4 Lucerne
 LN grass ley
 LC grass Clover ley
 H 1 year hay
 R reseeded grass
 G Old grass
 [G] Pseudo - old grass

049	051	053	055	057	059
Sown solid, uniform N					
L4	LC	RB+	RG	A	AR
050	052	054	056	058	060
No yields					
(LN)	(LC)	(RB)	(LN)	(A)	(R)

073	075	077	079	081	083
Sown solid, uniform N					
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
074	076	078	080	082	084
No yields					
(G)	(LC)	(RB)	(A)	(LN)	(LN)

TEST CROP blocks 1+4
 W. wheat
 Flanders sown at 1704/ha (114/ha) on 2 November
 NOTE: TEST CROP to wheat replaces potatoes

001	003	005	007	009	011
Sown solid, uniform N					
L4	LC	RB+	RG	A	AR
002	004	006	008	010	012
No yields					
(LN)	(LC)	(RB)	(LN)	(A)	(R)

025	027	029	031	033	035
Sown solid, uniform N					
LC	H	L4	///	///	L4
026	028	030	032	034	036
No yields					
(G)	(LC)	(RB)	(A)	(LN)	(LN)

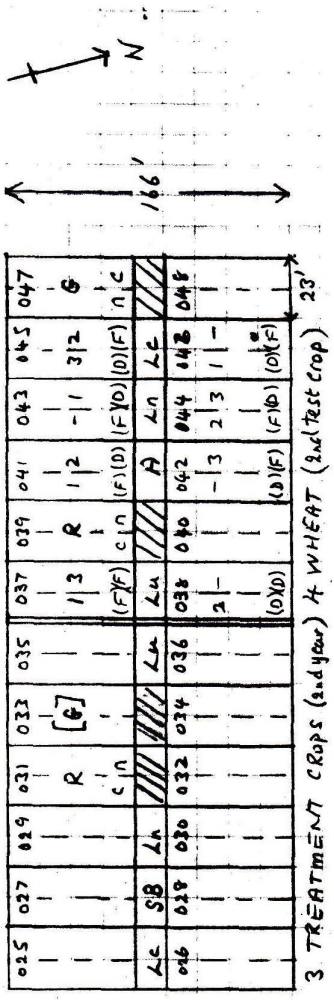
1 WHEAT (1st test crop)
 2 TREATMENT CROPS (1st year)
 3 TREATMENT CROPS (1st year) + WHEAT (1st test crop)

025	027	029	031	033	035
Sown solid, uniform N					
LC	H	L4	///	///	L4
026	028	030	032	034	036
No yields					
(G)	(LC)	(RB)	(A)	(LN)	(LN)

085	087	089	091	093	095
Sown solid, uniform N					
L4	AR	A	RB+	LC	RG
086	088	090	092	094	096
No yields					
(LN)	(R)	(A)	(G)	(LC)	(LN)

NOTE: R3+G8 etc refers to years reseeded (R) and old grass (G), first under arable crop (1963-1968 etc.)
 (F) (D), None FYM (residual treatments, C.N. None, N+K top dressed in spring and after each cut except the last

ROTHAMSTED LEY ARABLE (MUSEUM PLOTS) 38th YEAR HIGHFIELD 1986
 Sponsor: A.E. Johnston



1 WHEAT (2nd test crop)											
001	002	003	004	005	006	007	008	009	010	011	012
G	1 2	(F)	1 2	R	1 2	(F)	1 2	(F)	1 2	(F)	1 2
N	C	(F)	N	C	(F)	N	C	(F)	N	C	(F)
LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
002	003	004	005	006	007	008	009	010	011	012	013
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)
LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC

2 TREATMENT CROPS (2nd year)											
014	015	016	017	018	019	020	021	022	023	024	025
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)
LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC

3 TREATMENT CROPS (3rd year) + WHEAT (2nd test crop)											
026	027	028	029	030	031	032	033	034	035	036	037
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)
LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC

CROPPING

TREATMENT CROPS Blocks 2 + 3

- LC Lucerne
- LC Grass ley
- LC Grass / Clover ley
- SB Sugar beet
- R Reseeded grass
- G Old grass
- [G] Pseudo old grass

TEST CROPS blocks 1 + 4

Winter wheat, sown 10 October
 Avalon

Notes: (F)(D); None, FYM (Residual treatments), c, n, None, N+K top dressed in spring and after each cut except the last.

NOTE: Crop sequence blocks (old blocks 5-12) all to be sown solid, uniform N, no yields.

Variety Avalon

1987

HIGHFIELD

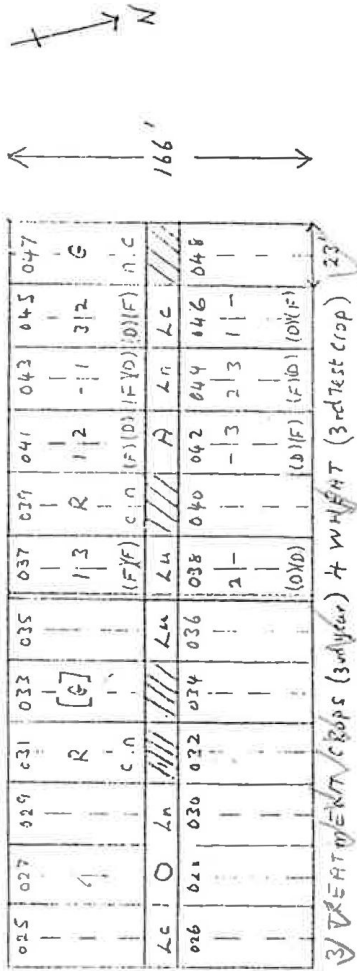
Sponsor: A.E. Johnston

39th YEAR

LEY ARABLE (MUSEUM PLOTS)

ROTHAMSTED

87/R/RN/V



001	003	005	007	009	011	013	015	017	019	021	023
G	1 2	R	- 3	1 2	- 1	R	- 1	- 1	- 1	- 1	G
n.c	(D)(F)	n.c	(D)(F)	(D)(F)	(D)(F)	c.n	c.n	c.n	c.n	c.n	c.n
LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
002	004	006	008	010	012	014	016	018	020	022	024
1 2	- 3	- 3	2 1	- 3	2 1	- 1	- 1	- 1	- 1	- 1	- 1
(F)(D)	(F)(D)	(F)(D)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)

1 WHEAT (3rd test crop) 2 TREATMENT CROPS (3rd year) 3 TREATMENT CROPS (3rd year) + WHEAT (3rd test crop)

CROPPING

TREATMENT CROPS blocks 2 + 3

- LC Lucerne
- LN Grass ley
- LO Grass / Clover ley
- O Oats
- R Reseeded grass
- G Old grass
- [G] Pseudo old grass

TREATMENT CROPS blocks 1 + 4

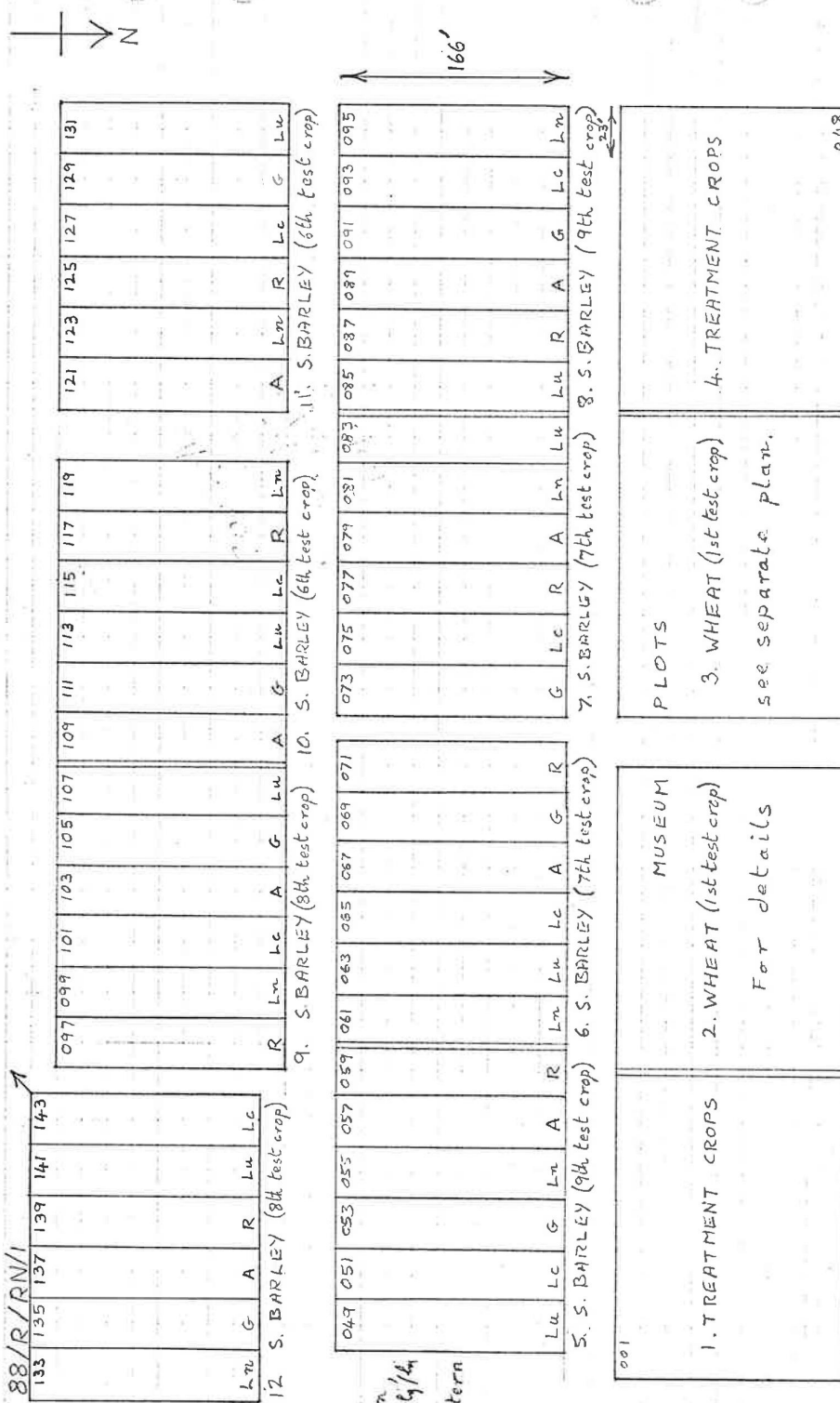
- Winter Wheat
- AVALON, nonn 4000lb

Notes: (F)(D), None, FYM (Residual treatments), c.n, None, N + K top dressed in spring and after each cut except the last.

4 crops
6th test crop
7
8
9

9a

ROTHAMSTED LEY ARABLE S. Barley 40TH YEAR 1988
 Sponsor: A.E. Johnston



TREATMENT CROPS

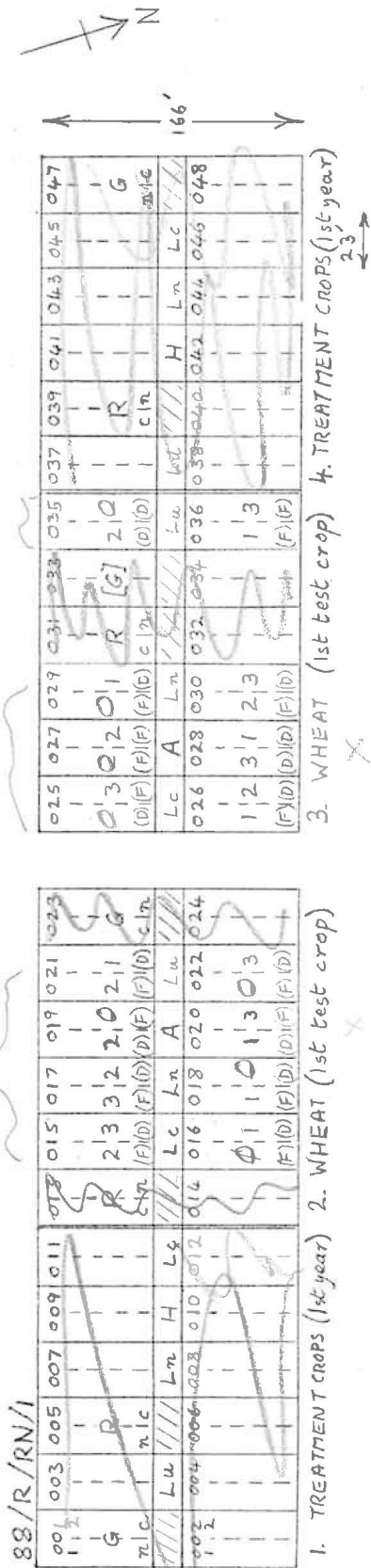
- A Arable
- G Old Grass
- Lc Grass clover ley
- Ln Grass ley
- Lu Lucerne
- R Reseeded grass

CROPPING 1988

Blocks 5-12
 S Barley: Variety: Klaxon
 sown 0.1 m. only sown at 158g/ha
 on 3rd March, 1988
 Yields taken from eastern
 half of each plot only

Thea Rot x FYM + W
Block —
NS = 0

ROTHAMSTED LEY ARABLE (MUSEUM PLOTS) OF 10
40TH YEAR
HIGHFIELD 1988
Sponsor: A.E. Johnston



CROPPING

TREATMENT CROPS blocks 1 & 4

- Lu Lucerne
- Ln Grass Ley
- Lc Grass/clover Ley
- H 1 year Hay
- R Reseeded grass
- G Old grass
- [G] Pseudo Old Grass

TEST CROPS blocks 2 & 3

Winter Wheat
Avalon, Sown 5 Oct, 87

N test to Wheat

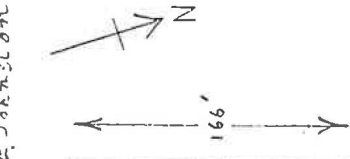
- None
- 1 50 Kg N ha⁻¹
- 2 100 ..
- 3 150 ..

Notes: (F), (D): None; FYM (residual treatments)

c, n: None; NOK top dressed in spring and after each cut except the last.

9

RCTHAMSTED LEY ARABLE (MUSEUM PLOTS)
 41st YEAR
 HIGHFIELD 1759
 Sponsor: A.K. Johnston, P.R. Poulton



001	003	005	007	009	011	013	015	017	019	021	023
1 1 2	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 1
G	R	R	R	R	R	R	R	R	R	R	G
n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c
///	Lw	///	Lm	Sb	Lc	///	Lc	Lm	A	Lw	///
002	004	006	008	010	012	014	016	018	020	022	024
1 1 2	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 1
1 1 2	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 1
///	///	///	///	///	///	///	///	///	///	///	///

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

Note: Position of N-9 NI seed (in error) in several of plots in 1989

CROPPING

TREATMENT CROPS blocks 1 r 4

- L4 Lucerne
- Lm Grass Ley
- Lc Grass/clover Ley
- Sb Sugar beet
- R Reseeded grass
- G Old grass
- [G] Pseudo Old Grass

TEST CROPS blocks 2 r 3

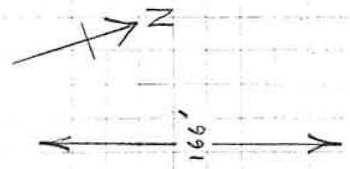
- Winter Wheat
- Avalon, mean: 270t

N test to W Wheat

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

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

ROTHAMSTED LEY ARABLE (MUSEUM PLOTS) 42nd YEAR HIGHFIELD 1990
 Sponsor: P.R. Poulton



001	003	005	007	009	011	013	015	017	019	021	023
G		R				R	2,3	3,2	2,1	2,1	G
n,c		n,c				c,n	(F)(D)	(F)(D)	(D)(F)	(F)(D)	c,n
///	Lu	///	Ln	O	Lc	///	Lc	Ln	A	Lu	///
002	004	006	008	010	012	014	016	018	020	022	024
1,3							-1	1,1	-3	-3	
							(F)(D)	(F)(D)	(D)(F)	(F)(D)	

1. TREATMENT CROPS (3rd year) 2. WHEAT (3rd test crop) 3. WHEAT (3rd test crop) 4. TREATMENT CROPS (3rd year)

CROPPING

TREATMENT CROPS blocks 1 & 4

- Lu Lucerne
- Ln Grass Ley
- Lc Grass/clover Ley
- O Oats
- R Reseeded grass
- G Old grass
- [G] Pseudo Old Grass

TEST CROPS blocks 2 & 3

- Winter Wheat
- Avalon, sown: 4 Oct

N Test to Wheat

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

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