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ROTHAMSTED
RESEARCH

Collection of Plans for the Highfield Ley-arable Experiment

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Highfield Ley-arable 1970-79

Rothamsted Research

Rothamsted Research (1949-1990) *Highfield Ley-arable 1970-79* ; Collection Of Plans For The Highfield Ley-Arable Experiment, pp 22 - 31

R & G Plots (Memo. 24/6/70) cut by 1/2 plots, one sample from each 1/2 plot on each cutting occasion.

Rothamsted LEY-ARABLE 22nd year 70/R/RN/1 HIGHFIELD 1970 9

135	137	139	141	143	
1 2	1 2	1 2	1 2	1 2	
3 4	3 1	2 1	4 1	3 4	
Ln (G)	A	(R)	Lu	Lc	
134	136	138	140	142	144
1 2	1 2	1 2	1 2	1 2	1 2
4 3	1 2	4 2	4 3	2 3	1 2

097	099	101	103	105	107	109	111	113	115	117	119
3 2	3 4	2 1	2 3	1 2	1 3	3 -	- 3 1	- 3 4	- 2 1	1 1	3 2
(R)	Ln	Lc	A	(G)	Lu	A ⁴ (G)	Lu ¹	Lc ² (R)	Ln ³	Ln ³	Ln ³
098	100	102	104	106	108	110	112	114	116	118	120
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
1 4	2 1	3 4	4 1	3 4	4 2	3 4	3 4	3 4	3 4	3 4	3 4

121	123	125	127	129	131
1 2	1 2	1 2	1 2	1 2	1 2
2 1	3 -	2 1	1 2	2 1	2 3
A	Ln (R)	Lc	(G)	Lu	Lu
122	124	126	128	130	132
1 2	1 2	1 2	1 2	1 2	1 2
1 2	2 1	2 1	3 -	1 -	3 2
3 4	3 4	3 4	3 4	3 4	3 4
3 -	- 3	- 3	1 2	3 2	1 -

9. WHEAT 5th test crop 10. WHEAT after Potatoes

049	051	053	055	057	059	061	063	065	067	069	071
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
3 1	4 3	3 4	1 2	1 4	4 1	3 -	- 1 1	- 2 1	- 2 1	1 2	- 2
Lu	Lc (G)	Ln	A	(R)	Ln	Lu	Lc	A	(G)	(R)	(R)
050	052	054	056	058	060	062	064	066	068	070	072
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
2 4	2 1	1 2	3 4	2 3	3 2	2 1	1 -	1 -	3 3	- 3	3 3

073	075	077	079	081	083	085	087	089	091	093	095
1 -	- 3	2 -	- 3	1 -	2 3	1 2	1 2	1 2	1 2	1 2	1 2
3 4	3 4	3 4	3 4	3 4	3 4	4 3	4 3	4 1	2 3	3 2	3 2
(G)	Lc (R)	A	Ln	Lu	Lu	Lu	(R)	A	(G)	Lc	Ln
074	076	078	080	082	084	086	088	090	092	094	096
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
3 3	1 -	1 1	3 2	2 3	- 3	2 1	2 1	3 2	4 1	1 4	4 1

Sowing W: 16 Oct (Joss Cambiar) B: 20 May (Julia)

5. WHEAT 6th test crop 6. BARLEY after Wheat

001	003	005	007	009	011	013	015	017	019	021	023
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
G n.c	R n.c	R n.c	R n.c	R n.c	R n.c	R n.c	R n.c	R n.c	R n.c	R n.c	R n.c
Lu	Lu	Ln	B ^{1/2}	Lc	Lc	(R)	Lc	Ln	A	Lu	Lu
002	004	006	008	010	012	014	016	018	020	022	024
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

025	027	029	031	033	035	037	039	041	043	045	047
3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2
D-F	D-F	D-F	D-F	D-F	D-F	D-F	D-F	D-F	D-F	D-F	D-F
Lc	A	Ln	(R)	Lu	Lu	Lu	Lu	B ^{1/2}	Ln	Lc	Lc
026	028	030	032	034	036	038	040	042	044	046	048
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
1 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -

7. BARLEY after Wheat 8. WHEAT 6th test crop

025	027	029	031	033	035	037	039	041	043	045	047
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4
Lu	Lu	Lu	Lu	Lu	Lu	Lu	Lu	Lu	Lu	Lu	Lu

1. Treatment Crops 1st year. 2. POTATOES 1st test crop 3. POTATOES 1st test crop 4. Treatment Crops 23rd year.

HIGHFIELD 1971 9

1971
487
71/R/RN/I

Rothamsted LEY - ARABLE 2697 23rd year

133	135	137	139	141	143
1 2	1 2	1 2	1 2	1 2	1 2
1 2	3 4	3 1	2 1	4 1	3 4
Ln	G ⁹	A	R ⁹	Lu	Lc
134	136	138	140	142	144
1 2	1 2	1 2	1 2	1 2	1 2
4 3	1 2	4 2	4 3	2 3	1 2

109	111	113	115	117	119
3 2	2 3	2 1	2 3	2 1	2 1
3 4	3 4	3 4	3 4	3 4	3 4
1 -	-	-	-	-	-
A ⁴	G ⁹	Lu	Lc	R ⁹	Ln
097	099	101	103	105	107
1 2	1 2	1 2	1 2	1 2	1 2
3 2	3 4	2 1	2 3	1 2	1 3
R ⁹	Ln	Lc	A	G ⁹	Lu
098	100	102	104	106	108
1 2	1 2	1 2	1 2	1 2	1 2
1 4	2 1	3 4	4 1	3 4	4 2

121	123	125	127	129	131
1 2	1 2	1 2	1 2	-	2 3
3 4	3 4	3 4	3 4	3 4	3 4
3 -	1 2	3 -	2 3	2 2	- 1
A ⁴	Lr ⁵	R ⁹	Lc	G ⁹	Lu
122	124	126	128	130	132
1 2	1 2	1 2	1 2	1 2	1 2
- 3	- 3	2 1	- 1	3 1	1 -
3 4	3 4	3 4	3 4	3 4	3 4
2 1	2 1	- 3	2 3	1 3	3 2

049	051	053	055	057	059
1 2	1 2	1 2	1 2	1 2	1 2
3 1	4 3	3 4	1 2	1 4	4 1
Lu	Lc	G ⁸	Ln	A	R ⁹
050	052	054	056	058	060
1 2	1 2	1 2	1 2	1 2	1 2
2 4	2 1	1 2	3 4	2 3	3 2

061	063	065	067	069	071
1 2	1 2	1 2	1 2	1 2	1 2
2 3	3 4	3 4	1 2	3 4	4 1
Ln	Lu	Lc	A	G ⁸	R ⁹

072	074	076	078	080	082
1 2	1 2	1 2	1 2	1 2	1 2
2 1	2 1	4 3	1 3	3 4	1 4
G ⁸	Lc	R ⁹	A	Ln	Lu
073	075	077	079	081	083
1 2	1 2	1 2	1 2	1 2	1 2
4 3	4 3	2 1	4 2	1 2	3 2

084	086	088	090	092	094
1 2	1 2	1 2	1 2	1 2	1 2
2 1	2 1	2 1	3 2	4 1	1 4
Lu	R ⁹	A	G ⁸	Lc	Ln
085	087	089	091	093	095
1 2	1 2	1 2	1 2	1 2	1 2
4 3	4 3	4 1	2 3	3 2	3 2

096	098	100	102	104	106
1 2	1 2	1 2	1 2	1 2	1 2
2 1	2 1	3 2	4 1	1 4	1 4
Lu	R ⁹	A	G ⁸	Lc	Ln

001	003	005	007	009	011
1 2	1 2	1 2	1 2	1 2	1 2
G	R	n.c	n.c	F	Lc
Lu	Lu	Ln	H	Ln	Lc
002	004	006	008	010	012
1 2	1 2	1 2	1 2	1 2	1 2
-	-	-	-	-	-
3 4	3 4	3 4	3 4	3 4	3 4
2 1	2 1	-	-	-	-

013	015	017	019	021	023
1 2	1 2	1 2	1 2	1 2	1 2
3 4	3 4	3 4	3 4	3 4	3 4
3 -	1 -	1 1	2 3	- 3	-
R ⁴	Lc ⁴	Ln ³	A ⁴	Lu ¹	-
014	016	018	020	022	024
1 2	1 2	1 2	1 2	1 2	1 2
- 3	- 3	2 2	3 -	1 2	-
3 4	3 4	3 4	3 4	3 4	3 4
2 1	2 1	-	-	-	-

025	027	029	031	033	035
1 2	1 2	1 2	1 2	1 2	1 2
3 -	1 -	2 3	3 -	[G ⁴]	3 2
3 4	3 4	3 4	3 4	3 4	3 4
1 2	3 2	- 1	1 2	-	-
Lc ²	A ⁴	Ln ²	R ⁴	Lu ¹	-
026	028	030	032	034	036
1 2	1 2	1 2	1 2	1 2	1 2
3 2	- 1	3 -	2 1	3 2	3 2
3 4	3 4	3 4	3 4	3 4	3 4
1 -	2 3	1 2	- 3	1 -	-

037	039	041	043	045	047
1 2	1 2	1 2	1 2	1 2	1 2
-	R	F	-	-	G
Lu	Cn	H	Ln	Lc	n.c
038	040	042	044	046	048
1 2	1 2	1 2	1 2	1 2	1 2
-	-	-	-	-	-
3 4	3 4	3 4	3 4	3 4	3 4
1 -	1 -	2 3	1 2	1 2	1 2

1 Treatment Crops
2nd year
R⁹, G⁸ etc 1963, 1968 crop year R & G put into arable crop

2 WHEAT after Potatoes
R⁹, G⁸ etc 1963, 1968 crop year R & G put into arable crop

3 WHEAT after Potatoes 4 Treatment Crops
2nd year

2697
(2)

2692
1 (1)
166
Lu
Lc
Ln
A

2692
(2)



KOTHAMSTED LEY - AKABLE 24th year HIGHFIELD 1972

133	135	137	139	141	143
1 2 3	1 2 3 4	1 2 3 4 5	1 2 3 4	1 2 3 4	1 2 3 4
Ln	G9	A	R9	Lu	Lc
134	136	138	140	142	144
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
4 3	1 2	4 2	4 3	2 3	1 2

097	099	101	103	105	107	109	111	113	115	117	119
1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
R9	Ln	Lc	A	G9	Lu	A	G9	Lu	Lc	R3	Ln
098	100	102	104	106	108	110	112	114	116	118	120
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
1 4	2 1	3 4	4 1	3 4	4 2	4 1	1 4	3 4	3 4	3 2	2 1

121	123	125	127	129	131
1 2 3 4	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
A	Ln	R3	Lc	G9	Lu
122	124	126	128	130	132
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
3 1	1 3	1 3	4 1	1 2	3 1

12 WHEAT 5th Cereal

9 WHEAT 5th Cereal 10 WHEAT 3rd Cereal

11 WHEAT 3rd Cereal

049	051	053	055	057	059	061	063	065	067	069	071
1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
Lu	Lc	G8	Ln	A	R5	Ln	Lu	Lc	A	G8	R8
050	052	054	056	058	060	062	064	066	068	070	072
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
2 4	2 1	1 2	3 4	2 3	3 2	4 1	1 2	2 1	4 3	1 2	2 3

5 WHEAT 6th Cereal 6 WHEAT 4th Cereal

001	003	005	007	009	011	013	015	017	019	021	023
1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
G	R	R	Ln	SB	Lc	R4	Lc	Ln	A	Lu	
002	004	006	008	010	012	014	016	018	020	022	024
1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

1 Treatment Crops 2 BARLEY after Wheat

025	027	029	031	033	035	037	039	041	043	045	047
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Lc	A	Ln	R4	Lu	Lu	Lu	R	SB	Ln	Lc	
026	028	030	032	034	036	038	040	042	044	046	048
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

3 BARLEY after Wheat, 4 Treatment Crops 3rd year

(sown 15 Mar 1972) Note Barley seed dressed with 'Milstem' K.C./fr



HIGHFIELD 1973



73/R/RN/11

Sponsors: Blocks 1-4, AE Johnsons. Blocks 5-12, D.B.S. Slope

133 1.2	135 1.2	137 1.2	139 1.2	141 1.2	143 1.2
1.2	3.4	3.1	2.1	4.1	3.4
L7	G9	A	R9	Lu	Lc
134 1.2	136 1.2	138 1.2	140 1.2	142 1.2	144 1.2
4.3	1.2	4.2	4.3	2.3	1.2

12 Wheat 6th Cereal

WW drilled 24 Oct. 1972

097 1.2	099 1.2	101 1.2	103 1.2	105 1.2	107 1.2	109 1.2	111 1.2	113 1.2	115 1.2	117 1.2	119 1.2
3.2	3.4	2.1	2.3	1.2	1.3	3.2	3.2	1.2	1.2	4.1	4.3
R9	Ln	Lc	A	G9	Lu	A	G9	Lu	Lc	R3	Ln
098 1.2	100 1.2	102 1.2	104 1.2	106 1.2	108 1.2	110 1.2	112 1.2	114 1.2	116 1.2	118 1.2	120 1.2
1.4	2.1	3.4	4.1	3.4	4.2	4.1	1.4	3.4	3.4	3.2	2.1

9 Wheat 6th Cereal 10 Wheat 4th Cereal

121 1.2	123 1.2	125 1.2	127 1.2	129 1.2	131 1.2
2.4	2.4	2.4	3.2	3.4	4.2
A	Ln	R3	Lc	G9	Lu
122 1.2	124 1.2	126 1.2	128 1.2	130 1.2	132 1.2
3.1	1.3	1.3	4.1	1.2	3.1

11 Wheat 4th Cereal

049 1.2	051 1.2	053 1.2	055 1.2	057 1.2	059 1.2	061 1.2	063 1.2	065 1.2	067 1.2	069 1.2	071 1.2
3.1	4.3	3.4	1.2	1.4	4.1	2.3	3.4	1.2	3.4	1.2	4.1
Lu	Lc	G8	Ln	A	R5	Ln	Lu	Lc	A	G8	R8
050 1.2	052 1.2	054 1.2	056 1.2	058 1.2	060 1.2	062 1.2	064 1.2	066 1.2	068 1.2	070 1.2	072 1.2
2.4	2.1	1.2	3.4	2.3	3.2	4.1	1.2	1.1	4.3	1.2	2.3

5 Wheat 7th Cereal 6 Wheat 5th Cereal

Potato sub-plots Variety: Cappelle

001 1.2	003 1.2	005 1.2	007 1.2	009 1.2	011 1.2	013 1.2	015 1.2	017 1.2	019 1.2	021 1.2	023 1.2
G	2.3	R	D	0	1	R	0	0	0	0	G
nc	D	nc	0	D	0	nc	nc	nc	nc	nc	nc
002 1.2	004 1.2	006 1.2	008 1.2	010 1.2	012 1.2	014 1.2	016 1.2	018 1.2	020 1.2	022 1.2	024 1.2
1.2	2.1	3.4	3.3	1.2	2.0	1.2	1.2	1.2	0.2	0.2	0.2

1 POTATOES 2 Treatment Crops 3 Treatment Crops 4 POTATOES

1st Test Crop 1st year R & G under 1st arable crop. i.e. 1963, 1968
R, G etc refers to year R & G under 1st arable crop. i.e. 1963, 1968
D FYM last applied in 1968

073 1.2	075 1.2	077 1.2	079 1.2	081 1.2	083 1.2	085 1.2	087 1.2	089 1.2	091 1.2	093 1.2	095 1.2
4.3	4.3	2.1	4.2	1.2	3.2	4.3	4.3	4.1	2.3	3.2	3.2
G8	Lc	R8	A	Ln	Lu	Lu	R5	A	G8	Lc	Ln
074 1.2	076 1.2	078 1.2	080 1.2	082 1.2	084 1.2	086 1.2	088 1.2	090 1.2	092 1.2	094 1.2	096 1.2
2.1	2.1	4.3	1.3	3.4	1.4	2.1	2.1	3.2	4.1	1.4	4.1

7 Wheat 5th Cereal 8 Wheat 7th Cereal

025 1.2	027 1.2	029 1.2	031 1.2	033 1.2	035 1.2	037 1.2	039 1.2	041 1.2	043 1.2	045 1.2	047 1.2
Lc	H	Ln	R	[G]	Lu	Lu	R	3	2	3	2
Lc	H	Ln	nc	nc	nc	nc	nc	D	D	D	nc
026 1.2	028 1.2	030 1.2	032 1.2	034 1.2	036 1.2	038 1.2	040 1.2	042 1.2	044 1.2	046 1.2	048 1.2
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

1st Test Crop 1st year R & G under 1st arable crop. i.e. 1963, 1968
D FYM last applied in 1968

Rotol. 1972
Keep
Grass from
Potato blocks
Treatment
blocks
separately

Rothamsted LEY - ARABLE Sponsors 26th year 74/R/RN/1 HIGHFIELD 1974 9

Blocks 1-4, AE Johnston Blocks 5-12 DB Slope.

Nitrogen Blocks 5-12

1	0.6 cwt N	135	137	139	141	143
2	1.0 cwt N	12	3	4	1	2
3	1.4 cwt N	1	2	1	4	3
4	1.8 cwt N	Lr	G9	A	R9	Lc
Applied in spring		134	136	138	140	142
		1	2	1	2	1
		4	3	1	2	3
		1	2	4	2	3
		4	3	1	2	1

12 Wheat 7th cereal

Variety Cappelle
seed dressed
Dieldrin/organomercury
sown at 180lb/a
on 24 Oct 1973

049	051	053	055	057	059	061	063	065	067	069	071
1	2	1	2	1	2	1	2	1	2	1	2
3	1	4	3	4	1	2	1	4	1	2	3
Lr	Lc	G8	Lr	A	R5	Lr	Lc	Lc	A	G8	R5
050	052	054	056	058	060	062	064	066	068	070	072
1	2	1	2	1	2	1	2	1	2	1	2
2	4	2	1	2	3	4	2	3	2	4	1
Lr	Lc	G8	Lr	A	R5	Lr	Lc	Lc	A	G8	R5

5 Wheat 8th cereal 6 Wheat 6th cereal

001	003	005	007	009	011	013	015	017	019	021	023
1	2	1	2	1	2	1	2	1	2	1	2
G	2	R	1	0	2	0	1	3	4	G	
n.c	3	4	n.c	2	3	4	2	2		c.n	
Lr	Lc	Lr	A	Lc	Lr	Lc	Lr	Lc	Lr	Lc	Lr
002	004	006	008	010	012	014	016	018	020	022	024
1	2	1	2	1	2	1	2	1	2	1	2
1	1	1	2	3	3	0					
3	4	3	4	3	4	3	4	3	4	3	4
0	0	0	0	1	0	1					
Lr	Lc	Lr	A	Lc	Lr	Lc	Lr	Lc	Lr	Lc	Lr

1 WHEAT 2nd Test crop

2 Treatment crops 2nd year
R, G etc. refers to year R & G
1st arable crop ie 1963, 1968

121	123	125	127	129	131
1	2	1	2	1	2
2	4	2	4	3	2
3	4	2	4	3	2
A	Lr	R3	Lc	G9	Lr
122	124	126	128	130	132
1	2	1	2	1	2
3	1	1	3	1	3
4	1	3	4	1	2
1	2	3	1	2	3

11 Wheat 5th cereal

073	075	077	079	081	083	085	087	089	091	093	095
1	2	1	2	1	2	1	2	1	2	1	2
4	3	4	3	2	1	2	3	2	4	3	2
G8	Lc	R8	A	Lr	Lc	Lr	R5	A	G8	Lc	Lr
074	076	078	080	082	084	086	088	090	092	094	096
1	2	1	2	1	2	1	2	1	2	1	2
2	1	2	1	4	3	4	1	4	2	1	2
Lr	Lc	R8	A	Lr	Lc	Lr	R5	A	G8	Lc	Lr

7 Wheat 6th cereal 8 Wheat 8th cereal

025	027	029	031	033	035	037	039	041	043	045	047
1	2	1	2	1	2	1	2	1	2	1	2
			R	[G]		2	R	3	0	1	0
			c.n			3	c.n	3	4	3	4
Lc	Sb	Lr	Lr		Lr	Lr		A	Lr	Lc	
026	028	030	032	034	036	038	040	042	044	046	048
1	2	1	2	1	2	1	2	1	2	1	2
						0	3	2	2	2	3
						3	4	1	1	1	0
						2	1	1	1	0	2
Lc	Sb	Lr	Lr		Lr	Lr		A	Lr	Lc	

3 Treatment crops 2nd year

4 WHEAT 2nd Test crop
+28

Rothamsted LEY - ARABLE
Sponsors:
75/R/RN/I
27th year
HIGHFIELD 1975

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

133 1/2	135	137	139	141	143
1/2	3/4	3/1	2/1	4/1	3/4
Ln	G9	A	R9	Lu	Lc
134 1/2	136	138	140	142	144
4/3	1/2	4/2	4/3	2/3	1/2

097 1/2	099	101	103	105	107	109 1/2	111	113	115	117	119
3/2	3/4	2/1	2/3	1/2	1/3	3/2	3/2	1/2	1/2	4/1	4/3
R9	Ln	Lc	A	G9	Lu	A	G9	Lu	Lc	R3	Ln
098 1/2	100	102	104	106	108	110 1/2	112	114	116	118	120
1/4	2/1	3/4	4/1	3/4	4/2	4/1	1/4	3/4	3/4	3/2	2/1

121 1/2	123	125	127	129	131
2/4	2/4	2/4	3/2	3/4	4/2
A	Ln	R3	Lc	G9	Lu
122 1/2	124	126	128	130	132
3/1	1/3	1/3	4/1	1/2	3/1

12 WHEAT 8th cereal

9 WHEAT 8th cereal 10 WHEAT 8th cereal

11 WHEAT 6th cereal

049 1/2	051	053	055	057	059	061	063	065	067	069	071
3/1	4/3	3/4	1/2	3	4/1	2/3	3/4	3/4	1/2	3/4	4/1
Lu	Lc	G8	Ln	A	R5	Ln	Lu	Lc	A	G8	R8
050 1/2	052	054	056	058	060	062	064	066	068	070	072
2/4	2/1	1/2	3/4	4	3/2	4/1	1/2	2/1	4/3	1/2	2/3

073 1/2	075	077	079	081	083	085 1/2	087	089	091	093	095
4/3	4/3	2/1	4/2	1/2	3/2	4/3	4/3	4/1	2/3	3/2	3/2
G8	Lc	R5	A	Ln	Lu	Lu	R5	A	G8	Lc	Ln
074 1/2	076	078	080	082	084	086 1/2	088	090	092	094	096
2/1	2/1	4/3	1/3	3/4	1/4	2/1	2/1	3/2	4/1	1/4	4/1

7 WHEAT 7th cereal 8 WHEAT 9th cereal

5 WHEAT 9th cereal * 75/cs/69 New treatments to Rn, blocks 1-4

3 Treatment crops 4 WHEAT 3rd Test crop (2nd cereal)

001 1/2	003	005	007	009	011	013 1/2	015	017	019	021	023
G	1/1	*R	0/0	3/0	0/3	R*					G
n.c	3/3	n.c	3/3	2/2	3/1	c.n					c.n
002 1/2	004	006	008	010	012	014 1/2	016	018	020	022	024
2/0	2/0	2/1	3/1	1/0							
0/2		1/2	1/0	2/2							

025 1/2	027	029	031	033	035	037 1/2	039	041	043	045	047
			R*	[G]		3/2	*R	0/1	3/3	3/3	G
Lc	O	Ln				O	c.n	3/2	0/2	1/2	n.c
026 1/2	028	030	032	034	036	038 1/2	040	042	044	046	048
						1/2		0/2	2/0	2/0	
						0/3		3/1	1/1	0/1	

2 Treatment crops 3rd year
3 Treatment crops 3rd year
4 WHEAT 3rd Test crop (2nd cereal)

1 WHEAT 3rd Test crop

Note: R3, G8 etc. refers to year R & G under 1st arable crop i.e. 1963, 1968

Corrected
- see 0572
Plan - lots
sub-P 0582
and 0582
N Treatments
in 1963

W.W. Cappelle
sown at 180 lb/a
with 336 lb/a of
(0120:20) combine
drilled
Sown
81ks 1+4 on 31 Oct
81ks 5-12 on 30 Oct.

Sub-plot numbering

1977

HIGHFIELD

29th Year 77/R/RN/1

LEY-ARABLE

Rothamsted

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

133	135	137	139	141	143
FALLOW					
(Ln)	(G9)	(A)	(R9)	(Ln)	(Lc)

WHEAT (Blocks 2-3):
Coffeale, Test N,
- 1, 2, 3: 0, 50, 100,
150 kg N/ha. Yields
required

WHEAT (Blocks 6, 7, 10):
Coffeale, Control N
(125 kg/ha) No yields
All wheat sown
24/11/76

NEW SEQUENCES (Blocks 5-8):

- LU Lucerne no Rother-to, variety resistant to Verticillium
- LC Grass/beans by an tiller to, species mixture unchanged
- RG Perennial ryegrass (3 yrs)
- RG1 - farm choice of mixed
- B Barley, India
- O Oats, Mamod

ALL SPRING (1977) SOWN

121	123	125	127	129	131
A	Ln	R3	Lc	G9	Lu
122	124	126	128	130	132

11 WHEAT 8th Barred

097	099	101	103	105	107	109	111	113	115	117	119
FALLOW											
(R9)	(Ln)	(Lc)	(A)	(G9)	(Ln)	A	G9	Lu	Lc	R3	Ln
110	112	114	116	118	120						

10 WHEAT 8th Barred

049	051	053	055	057	059	061	063	065	067	069	071
Lu	Lc	RG1	RG	O	B	Ln	Lu	Lc	A	G9	R9
050	052	054	056	058	060	062	064	066	068	070	072
(Ln)	(Lc)	(G9)	(Ln)	(A)	(R5)						

6 WHEAT 9th Barred

073	075	077	079	081	083	085	087	089	091	093	095
G9	Lc	R9	A	Ln	Lu	Lu	B	O	R61	Lc	RG
074	076	078	080	082	084	086	088	090	092	094	096
(Lu)	(R5)	(A)	(G9)	(Lc)	(Ln)						

7 WHEAT 9th Barred

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

1 Treatment crops 2nd Year 2 WHEAT (P.V.M.) 2nd Test Crop

025	027	029	031	033	035	037	039	041	043	045	047
- 3	- 2	- 1	R	[G]	2 -	R					G
026	028	030	032	034	036	038	040	042	044	046	048
D F	F F	F D	c.n.	D D	Lu	Lu	c.n.	Sb	Ln	Lc	n.c.

3 WHEAT (P.V.M.) 2nd Test Crop 4 Treatment Crops 2nd Year

revised
March 1977
incorporating
N left to
blocks 2 & 3

NOTE: R3, G9 etc. refer to year that received (R) or old grass (G) first under arable crop (1963 1969 etc.)
Residuals: F, D, None, Dune

1978

HIGHFIELD

78/R/RN/1

30th Year

LEY-ARABLE

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

CROPPING

133	135	137	139	141	143
RG	RG	O	B	Lu	Lc
134	136	138	140	142	144
(Ln)	(G ₂)	(A)	(R ₉)	(Lu)	(Lc)

WHEAT (Blocks 10,11)
Cappelle, basal N
@ 125 kg/ha. No yields.

NEW SEQUENCES (Blocks 5,8,9,12)
Lu Lucerne, Vertus.
Lc Grass/clover as 1977

121	123	125	127	129	131
A	Ln	R ₃	Lc	G ₉	Lu
122	124	126	128	130	132

109	111	113	115	117	119
A	G ₉	Lu	Lc	R ₃	Ln
110	112	114	116	118	120

097	099	101	103	105	107
B	RG	Lc	O	RG	Lu
098	100	102	104	106	108

073	075	077	079	081	083
074	076	078	080	082	084

RG Perennial ryegrass (3 yrs) as 1977

RG T As R₄ but not ploughed after 3 years

B Barley, Julia

O Oats, Manod

P Potatoes, Pentland Crown

WHEAT (Blocks 2 & 3)
Cappelle, Test N,
-1, 2, 3 : 0, 50, 100, 150 kg N/ha
Yields required

085	087	089	091	093	095
Lu	B	P	RG	Lc	RG
086	088	090	092	094	096

073	075	077	079	081	083
074	076	078	080	082	084

061	063	065	067	069	071
062	064	066	068	070	072

049	051	053	055	057	059
050	052	054	056	058	060

NEW SEQUENCES (1ST YEAR) 9

NEW SEQUENCES (2ND YEAR) 5

NEW SEQUENCES (3RD YEAR) 1

TREATMENT CROPS (Blocks 1,4)

Lu Lucerne

Ln Grass ley

Lc Grass/clover, Ley

O Oats, Manod

R Reseeded grass

G Old grass

[G] Arable-old grass

025	027	029	031	033	035
026	028	030	032	034	036

025	027	029	031	033	035
026	028	030	032	034	036

013	015	017	019	021	023
014	016	018	020	022	024

001	003	005	007	009	011
002	004	006	008	010	012

NEW SEQUENCES (1ST YEAR) 12

NEW SEQUENCES (2ND YEAR) 8

NEW SEQUENCES (3RD YEAR) 4

TREATMENT CROPS (Blocks 1,4)

Lu Lucerne

Ln Grass ley

Lc Grass/clover, Ley

O Oats, Manod

R Reseeded grass

G Old grass

[G] Arable-old grass

NOTE: R₃, G₈ etc refers to year that reseeded (R) and old grass (G) first under arable crop (1963, 1968 etc)

(F), (D) : None, Duing (residual treatments); c, n : None, N & K top dressed in Spring & after each cut except the last

ROTHAMSTED LEY-ARABLE 31st. YEAR 1977 HIGHFIELD
 SPONSORS: Blocks 1-4 R.E. Johnson, Blocks 5-12 D.B. Slope

CROPPING

NEW SEQUENCES (Blocks 5, 6, 7, 8, 9, 12)

- Lu Lucerne, Verbas
- Lc Grass/Clover
- Rg Bromine ryegrass

Rgt As Rg but not ploughed after 3 years

- Be Barley, Potatoes
- B Oats, Marnod
- P Potatoes, Penland Town (06)
- W wheat, Flanders

Potatoes (Blocks 1 & 4)

Portland Crown, Test N
 -, 1, 2, 3: 0, 30, 60, 240 kg N/ha
 Yields required

TREATMENT CROPS (Blocks 2 & 3)

- Lu Lucerne
- Ln Grass ley
- Lc Grass Clover ley
- H 1st. year hay
- R Reseeded grass
- G Old grass
- [G] Reseeds - old grass

133	135	137	139	141	143
RG	RGT	P	B	Lu	Lc
134	136	138	140	142	144
(Ln)	(Gg)	(A)	(Rg)	(Ln)	(Lc)

12 NEW SEQUENCES (2nd year)

097	099	101	103	105	107	109	111	113	115	117	119
B	RG	Lc	P	RGT	Lu						
098	100	102	104	106	108	110	112	114	116	118	120
(Rg)	(Ln)	(Lc)	(A)	(Gg)	(Ln)	(A)	(Gg)	(Ln)	(Lc)	(Rg)	(Ln)

9 NEW SEQUENCES (2nd year)

121	123	125	127	129	131
FALLOW					
122	124	126	128	130	132
(A)	(Ln)	(Rg)	(Lc)	(Gg)	(Ln)

11

049	051	053	055	057	059	061	063	065	067	069	071
Lu	Lc	RGT	RG	BE	W	Rg	Lu	Lc	O	RGT	B
050	052	054	056	058	060	062	064	066	068	070	072
(Ln)	(Lc)	(Gg)	(Ln)	(A)	(Rg)	(Ln)	(Ln)	(Lc)	(A)	(Gg)	(Rg)

5 NEW SEQUENCES (3rd year) 6 NEW SEQUENCES (1st year)

073	075	077	079	081	083	085	087	089	091	093	095
RGT	Lc	B	O	RG	Lu	Lu	W	BE	RG	Lc	RG
074	076	078	080	082	084	086	088	090	092	094	096
(Gg)	(Lc)	(Rg)	(A)	(Ln)	(Ln)	(Ln)	(Rg)	(A)	(Gg)	(Lc)	(Ln)

7 NEW SEQUENCES (1st year) 8 NEW SEQUENCES (3rd year)

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

1 POTATOES (1st test crop) 2 TREATMENT CROPS (1st year)

025	027	029	031	033	035	037	039	041	043	045	047
Lc	H	Ln	Ln	[G]	Lu	Lu	R	- 1 2	- 1	- 1	G
026	028	030	032	034	036	038	040	042	044	046	048
(Ln)	(Ln)	(Ln)	(Ln)	(Ln)	(Ln)	(Ln)	(Ln)	(Ln)	(Ln)	(Ln)	(Ln)

3 TREATMENT CROPS (1st year) 4 POTATOES (1st test crop)

NOTE: R, G, etc. refers to year that sown (R) and old grass (G) first under arable crop (1963 + 1968 etc.)
 (F, D): None etc. (residual treatments); C, N, None, 1, 2, 3, 4, dressed in Spring and after each crop except the last