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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
3 4	3 4	3 4	3 4	3 4	3 4
- 3	1 2	- 3	3 -	- 3	- 1
A	Ln (R)	Lc (G)	Lu	Ln	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 -

12. WHEAT 5th test crop

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

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

11. WHEAT after Potatoes

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
Lu	(R)	A	(G)	Lc	Ln
086	088	090	092	094	096
1 2	1 2	1 2	1 2	1 2	1 2
2 1	2 1	3 2	4 1	1 4	4 1

5. WHEAT 6th test crop

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								
Lu	Ln	B ^{1/2}	Lc								
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

1. Treatment Crops 1st year.

7. BARLEY after Wheat

025	027	029	031	033	035
3 2	3 2	3 2	3 2	3 2	3 2
D-F	F-F	F-F	F-F	F-F	F-F
Lc	A	Ln	(R)		Lu
026	028	030	032	034	036
1 2	1 2	1 2	1 2	1 2	1 2
F-D	D-D	D-D	D-D	D-D	D-D

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

097	099	101	103	105	107	109	111	113	115	117	119
1 2	1 2	1 2	1 2	1 2	1 2	3 2	2 3	2 1	2 3	2 1	2 1
3 2	3 4	2 1	2 3	1 2	1 3	3 4	3 4	3 4	- 1	3 4	3 4
R ⁹	Ln	Lc	A	G ⁹	Lu	A ⁴	G ⁹	Lu	Lc	R ⁹	Ln
098	100	102	104	106	108	110	112	114	116	118	120
1 2	1 2	1 2	1 2	1 2	1 2	3 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
3 4	3 4	3 4	3 4	3 4	3 4
3 4	3 4	3 4	3 4	3 4	3 4
A ⁴	Ln	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	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	2 3	3 4	1 2	3 4	4 1	4 1
Lu	Lc	G ⁸	Ln	A	R ⁹	Ln	Lu	Lc	A	G ⁸	R ⁹
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	4 1	1 2	2 1	4 3	1 2	2 3

073	075	077	079	081	083	085	087	089	091	093	095
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	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
G ⁸	Lc	R ⁹	A	Ln	Lu	Lu	R ⁹	A	G ⁸	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
2 1	2 1	4 3	1 3	3 4	1 4	2 1	2 1	3 2	4 1	1 4	4 1

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 -	1 -	2 3	3 -	[G ⁴]	3 2	3 2	R	041	043	045	047
Lc ²	A ⁴	Ln	R ⁹	Lu	Lu	Lu	C ¹	H	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
3 2	- 1	3 -	2 1	3 4	3 2	3 4	1 2	1 2	1 2	1 2	1 2

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	R	R	R	F	Lc	R ⁴	Lc ²	Ln	A ⁴	Lu	Lc
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
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

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	R	R	R	F	Lc	R ⁴	Lc ²	Ln	A ⁴	Lu	Lc
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
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

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	R	R	R	F	Lc	R ⁴	Lc ²	Ln	A ⁴	Lu	Lc
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
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

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	R	R	R	F	Lc	R ⁴	Lc ²	Ln	A ⁴	Lu	Lc
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
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

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	R	R	R	F	Lc	R ⁴	Lc ²	Ln	A ⁴	Lu	Lc
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
1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

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	R	R	R	F	Lc	R ⁴	Lc ²	Ln	A ⁴	Lu	Lc
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
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
2nd year

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

7 WHEAT 3rd cereal

8 WHEAT 5th cereal

10 BARLEY after Wheat

11 BARLEY after Wheat

12 WHEAT 4th cereal

13 WHEAT 4th cereal

14 WHEAT 4th cereal

15 WHEAT 4th cereal

16 WHEAT 4th cereal

17 WHEAT 4th cereal

18 WHEAT 4th cereal

19 WHEAT 4th cereal

20 WHEAT 4th cereal

21 WHEAT 4th cereal

22 WHEAT 4th cereal

23 WHEAT 4th cereal

24 WHEAT 4th cereal

25 WHEAT 4th cereal

26 WHEAT 4th cereal

27 WHEAT 4th cereal

28 WHEAT 4th cereal

29 WHEAT 4th cereal

30 WHEAT 4th cereal

31 WHEAT 4th cereal

32 WHEAT 4th cereal

33 WHEAT 4th cereal

34 WHEAT 4th cereal

35 WHEAT 4th cereal

36 WHEAT 4th cereal

37 WHEAT 4th cereal

38 WHEAT 4th cereal

39 WHEAT 4th cereal

40 WHEAT 4th cereal

41 WHEAT 4th cereal

42 WHEAT 4th cereal

43 WHEAT 4th cereal

44 WHEAT 4th cereal

45 WHEAT 4th cereal

46 WHEAT 4th cereal

47 WHEAT 4th cereal

48 WHEAT 4th cereal

49 WHEAT 4th cereal

50 WHEAT 4th cereal

51 WHEAT 4th cereal

52 WHEAT 4th cereal

53 WHEAT 4th cereal

54 WHEAT 4th cereal

55 WHEAT 4th cereal

56 WHEAT 4th cereal

57 WHEAT 4th cereal

58 WHEAT 4th cereal

59 WHEAT 4th cereal

60 WHEAT 4th cereal

61 WHEAT 4th cereal

62 WHEAT 4th cereal

63 WHEAT 4th cereal

64 WHEAT 4th cereal

65 WHEAT 4th cereal

66 WHEAT 4th cereal

67 WHEAT 4th cereal

68 WHEAT 4th cereal

69 WHEAT 4th cereal

70 WHEAT 4th cereal

71 WHEAT 4th cereal

72 WHEAT 4th cereal

73 WHEAT 4th cereal

74 WHEAT 4th cereal

75 WHEAT 4th cereal

76 WHEAT 4th cereal

77 WHEAT 4th cereal

78 WHEAT 4th cereal

79 WHEAT 4th cereal

80 WHEAT 4th cereal

81 WHEAT 4th cereal

82 WHEAT 4th cereal

83 WHEAT 4th cereal

84 WHEAT 4th cereal

85 WHEAT 4th cereal

86 WHEAT 4th cereal

87 WHEAT 4th cereal

88 WHEAT 4th cereal

89 WHEAT 4th cereal

90 WHEAT 4th cereal

91 WHEAT 4th cereal

92 WHEAT 4th cereal

93 WHEAT 4th cereal

94 WHEAT 4th cereal

95 WHEAT 4th cereal

96 WHEAT 4th cereal

97 WHEAT 4th cereal

98 WHEAT 4th cereal

99 WHEAT 4th cereal

KOTHAMSTED LEY - AKABLE 24th year HIGHFIELD 1972

12/15/18/21/16 20 26

1 11 15 18 19 16 20 26

1 11 15 18 19 16 20 26

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

131 129 127 125 123 121

121	123	125	127	129	131
1 2 4	1 2 4 2	1 2 4 5 2	1 2 3 4 2	1 2 3 4 2	1 2 4 2 1
A	Ln	R3	Lc	G9	Lu
122	124	126	128	130	132
1 2 3 1	1 2 3 1 3	1 2 3 4 1	1 2 3 4 1	1 2 3 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
1 2 3 1	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2
Lu	Lc	G8	Ln	A	R5
050	052	054	056	058	060
1 2 4 2	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2
Lu	Lc	G8	Ln	A	R5
061	063	065	067	069	071
1 2 3 4 2	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2	1 2 3 4 2
G8	Lc	R8	A	Ln	Lu
072	074	076	078	080	082
1 2 2 1	1 2 2 1	1 2 2 1	1 2 2 1	1 2 2 1	1 2 2 1
2 1	2 1	2 1	2 1	2 1	2 1
G8	Lc	R8	A	Ln	Lu

5 WHEAT 6th Cereal 6 WHEAT 4th Cereal

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

1 Treatment Crops 2 BARLEY after Wheat

025	027	029	031	033	035
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
026	028	030	032	034	036
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Lu	Lc	R4	Lu	Lc	Lc
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
Lu	R	SB	Ln	Lc	Lc
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
Lu	Lc	Lc	Ln	Lc	Lc

3 BARLEY after Wheat 4 Treatment Crops 5th year

BARLEY after Wheat (sown 15 Mar 1972) 3rd year
 R³, G⁸, etc. 1963, 1968 the year R4G under first arable crop. 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	135	137	139	141	143
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4
1 2	3 4	3 1	2 1	4 1	3 4

097	099	101	103	105	107	109	111	113	115	117	119
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3

097	099	101	103	105	107	109	111	113	115	117	119
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3
1 2	3 2	3 4	2 1	2 3	1 2	1 3	2 3	2 1	1 2	1 2	4 3

122	124	126	128	130	132
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	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	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	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	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	1 2

11 Wheat 4th Cereal

9 Wheat 6th Cereal 10 Wheat 4th Cereal

12 Wheat 6th Cereal
WW drilled 24 Oct. 1972

085	087	089	091	093	095
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	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	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	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	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	1 2

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
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	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	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	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	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	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	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	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	1 2	1 2	1 2	1 2

7 Wheat 5th Cereal 8 Wheat 7th Cereal

5 Wheat 7th Cereal 6 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	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	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	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	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	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	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
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	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	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

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
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	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	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	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	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	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	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	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	1 2	1 2	1 2	1 2

3 Treatment Crops 4 POTATOES

2 Treatment Crops

1 POTATOES

1st Test Crop
R, G etc refers to 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

HIGHFIELD 1974 9

74/R/RN/I

26th year

Rothamsted LEY - ARABLE Sponsors

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

Nitrogen Blocks 5-12	133	135	137	139	141	143
1 0.6 cwt N	1.2	1.2	1.2	1.2	1.2	1.2
2 1.0 cwt N	1.2	3.4	3.1	2.1	4.1	3.4
3 1.4 cwt N	Lr	G9	A	R9	Lr	Lc
4 1.8 cwt N	134	136	138	140	142	144
Applied in spring	4.3	1.2	4.2	4.3	2.3	1.2

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	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	Lr	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	1.2	1.2	1.2	1.2	1.2	1.2
2	4	2	1	2	3	4	2	3	3	2	4
Lr	Lc	G8	Lr	A	R5	Lr	Lr	Lc	A	G8	R5

5 Wheat 8th cereal 6 Wheat 6th cereal

Nitrogen

Blocks 1-4

0 None

1 0.4 cwt N

2 0.8 cwt N

3 1.2 cwt N

Applied in spring

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	2	R	3	4	3	4	2	2	G	C	R
n.c	3	n.c	2	3	0	1	2	2	Lr	A	Lc
Lr	Lr	Lr	A	Lc	Lr	Lr	Lr	Lr	Lr	Lr	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	1.2	1.2	1.2	1.2	1.2	1.2
1	1	1	0	2	3	3	0	0	0	2	4
3	4	3	4	3	4	3	4	3	4	3	4
0	0	0	0	0	0	0	0	0	0	0	0
Lr	Lr	Lr	A	Lc	Lr	Lr	Lr	Lr	Lr	Lr	Lr

1 WHEAT 2nd Test crop

2 Treatment crops 2nd year

3 Treatment crops 2nd year

4 Treatment crops 2nd year

5 1st arable crop ie 1963, 1968

121	123	125	127	129	131
1.2	1.2	1.2	1.2	1.2	1.2
2	4	2	4	3	2
A	Lr	R3	Lc	G9	Lr
122	124	126	128	130	132
1.2	1.2	1.2	1.2	1.2	1.2
3	1	1	3	4	1
1	2	3	4	1	2
3	1	1	3	4	1
Lr	Lr	R3	Lc	G9	Lr

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	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	Lr	Lr	Lr	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	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	Lr	Lr	A	G8	Lc	Lr	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	1.2	1.2	1.2	1.2	1.2	1.2
R	R	R	R	[G]							
n.c	n.c	n.c	n.c	n.c							
Lc	Sb	Lr	Lr	Lr	Lr	Lr	Lr	A	Lr	Lc	Lr
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
0	3	4	3	4	0	3	4	3	4	3	4
3	4	3	4	3	4	3	4	3	4	3	4
0	0	0	0	0	0	0	0	0	0	0	0
Lr	Lr	Lr	Lr	Lr	Lr	Lr	Lr	A	Lr	Lc	Lr

3 Treatment crops 2nd year

4 WHEAT 2nd Test crop

5 1st arable crop ie 1963, 1968

Rothamsted LEY - ARABLE
Sponsors:
75/R/RN/I

27th year

HIGHFIELD 1975

133 1/2	135	137	139	141	143
1/2	1/2	3/4	3/1	2/1	4/1
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
1/2	1/2	4/2	4/3	2/3	1/2
4/3	1/2	4/2	4/3	2/3	1/2

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

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

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

12 WHEAT 8th cereal

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

9 WHEAT 8th cereal 10 WHEAT 8th cereal

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

7 WHEAT 7th cereal 8 WHEAT 9th cereal

025 1/2	027	029	031	033	035	037 1/2	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
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	Lc	O	Ln	Lu	Lu	Lu	Lu	Lu	Lu	Lu	Lu
1/2	026 1/2	028	030	032	034	036	038	040	042	044	046
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	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	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2

1 WHEAT 3rd Test crop

011 1/2	012	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	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	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	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	1/2	1/2	1/2	1/2	1/2

2 Treatment crops 3rd year

014 1/2	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
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	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	1/2	1/2	1/2	1/2

3 Treatment crops 3rd year

037 1/2	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
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	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	1/2	1/2	1/2	1/2

4 WHEAT 3rd Test crop

038 1/2	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
1/2	1/2	1/2	1/2	1/2	1/2
1/2	1/2	1/2	1/2	1/2	1/2
1/2	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	1/2	1/2	1/2	1/2

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.

11 WHEAT 6th cereal

Sub-plot numbering

12 WHEAT 8th cereal

9 WHEAT 8th cereal

7 WHEAT 7th cereal

5 WHEAT 9th cereal

4 WHEAT 3rd Test crop

2 Treatment crops

3 Treatment crops

1 WHEAT

3rd Test crop

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

3rd year

3rd year

3rd year

3rd year

3rd year

3rd year

3rd year

3rd year

3rd year

3rd year

3rd year

1977

HIGHFIELD

29th Year 77/R/RN/1

LEY-ARABLE

Rothamsted

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

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

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

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

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

WHEAT (Blocks 9, 12):
Coffle, Test N
(125 kg/ha) No yields
All wheat sown
24/11/76

073	075	077	079	081	083	085	087	089	091	093	095
G8	Lc	R8	A	Ln	Lu	Lu	B	O	R67	Lc	R6
074	076	078	080	082	084	FALLOW					

WHEAT (Blocks 2, 5, 8):
Coffle, Test N
(125 kg/ha) No yields
All wheat sown
24/11/76

001	003	005	007	009	011	013	015	017	019	021	023
G	n.c.	R	n.c.	Ln	Lc	R	2 3	3 2	2 1	2 1	G
002	004	006	008	010	012	c.n.	F D	F D	D P	F D	c.n.
024	026	028	030	032	034	036	038	040	042	044	046
025	027	029	031	033	035	037	039	041	043	045	047

NEW SEQUENCES (Blocks 5, 8):
LU Lucerne no Rother-
willy resistant to Verticillium
LC Grass/beans by an tiller-
stems mutant unchanged
RG Perennial ryegrass (3 yrs)
R67 - farm choice of mixed
Barley, Inula
O Oats; Mamod
ALL SPRING (1977) SOWN

revised
March 1977
incorporating
N left to
blocks 2 & 3

NEW SEQUENCES (Blocks 2, 5, 8):
LU Lucerne no Rother-
willy resistant to Verticillium
LC Grass/beans by an tiller-
stems mutant unchanged
RG Perennial ryegrass (3 yrs)
R67 - farm choice of mixed
Barley, Inula
O Oats; Mamod
ALL SPRING (1977) SOWN

001	003	005	007	009	011	013	015	017	019	021	023
G	n.c.	R	n.c.	Ln	Lc	R	2 3	3 2	2 1	2 1	G
002	004	006	008	010	012	c.n.	F D	F D	D P	F D	c.n.
024	026	028	030	032	034	036	038	040	042	044	046
025	027	029	031	033	035	037	039	041	043	045	047

NEW SEQUENCES (Blocks 2, 5, 8):
LU Lucerne no Rother-
willy resistant to Verticillium
LC Grass/beans by an tiller-
stems mutant unchanged
RG Perennial ryegrass (3 yrs)
R67 - farm choice of mixed
Barley, Inula
O Oats; Mamod
ALL SPRING (1977) SOWN

001	003	005	007	009	011	013	015	017	019	021	023
G	n.c.	R	n.c.	Ln	Lc	R	2 3	3 2	2 1	2 1	G
002	004	006	008	010	012	c.n.	F D	F D	D P	F D	c.n.
024	026	028	030	032	034	036	038	040	042	044	046
025	027	029	031	033	035	037	039	041	043	045	047

NOTE: R3, G8 etc. refer to year that resesled (R) & old grass (G) first under arable crop (1963 1969 etc.)
Residuals: F, D, None, Duna

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

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

TREATMENT CROPS (Blocks 1,4)

Lu Lucerne
Ln Grass ley
Lc Grass/clover, Ley
O Oats, Manod
R Reseeded grass
G Old grass
[G] Arundo-old grass

9 NEW SEQUENCES (1ST YEAR)

049	051	053	055	057	059
Lu	Lc	RG	P	B	
050	052	054	056	058	060

11 WHEAT 9th Cereal

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

7

5 NEW SEQUENCES (2nd YEAR)

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

1 Treatment crops 3rd year 2 WHEAT (P.W.N) 3rd Test Crop

8

NEW SEQUENCES (2nd YEAR)

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

3 WHEAT (P.W.N) 3rd Test Crop 4 Treatment Crops 3rd year

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

