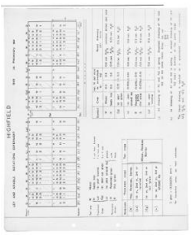
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Collection of Plans for the Highfield Ley-arable Experiment



Full Table of Content

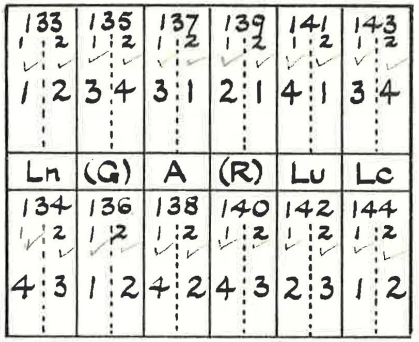
Highfield Ley-arable 1970-79

Rothamsted Research

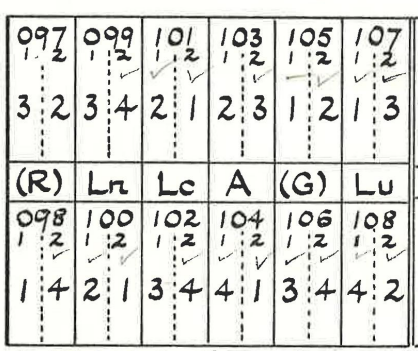
Rothamsted Research (1949-1990) *Highfield Ley-arable 1970-79 ;* Collection Of Plans For The Highfield Ley-Arable Experiment, pp 22 - 31

R & G Plots (Memo. 24/6/70) cut by ½ plots, one sample from each ½ plot on each cutting occasion.

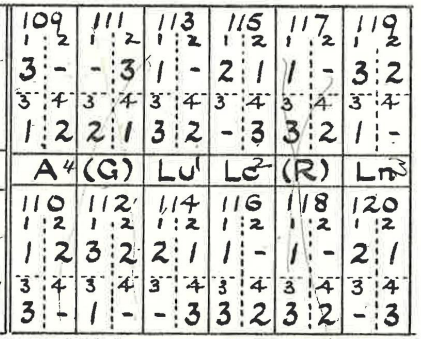
Rothamsted LEY-ARABLE 22nd year 70/R/RN/1 HIGHFIELD 1970



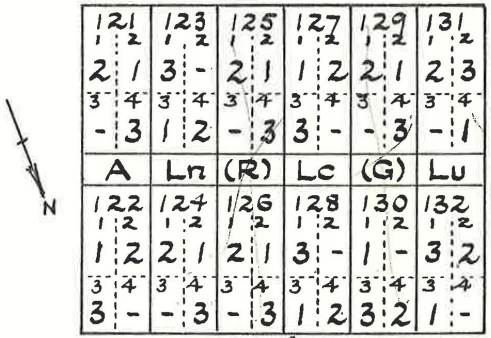
12. WHEAT 5th test crop



9. WHEAT 5th test crop

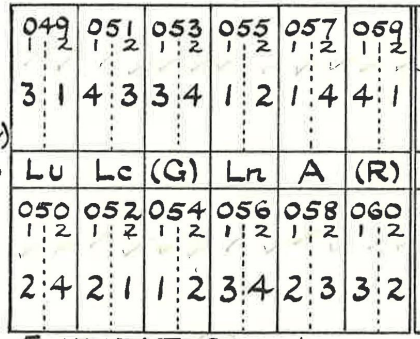


10. WHEAT after Potatoes

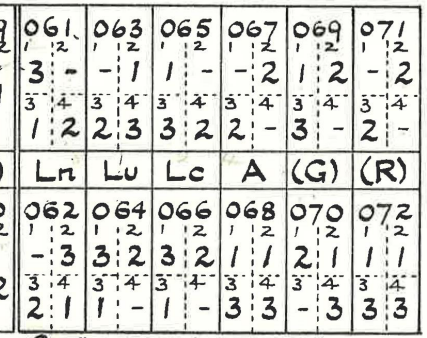


11. WHEAT after Potatoes

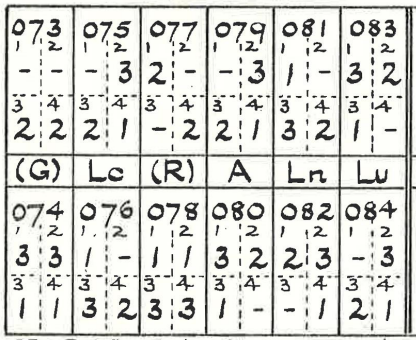
Sowing
W: 16 Oct (Joss Cambier)
B: 20 Mar (Julia)



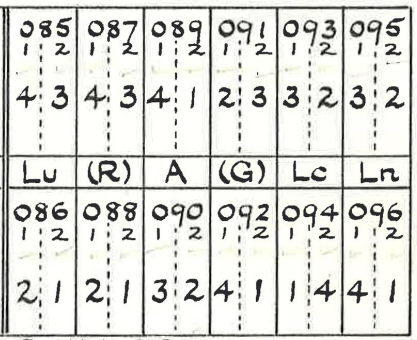
5. WHEAT 6th test crop



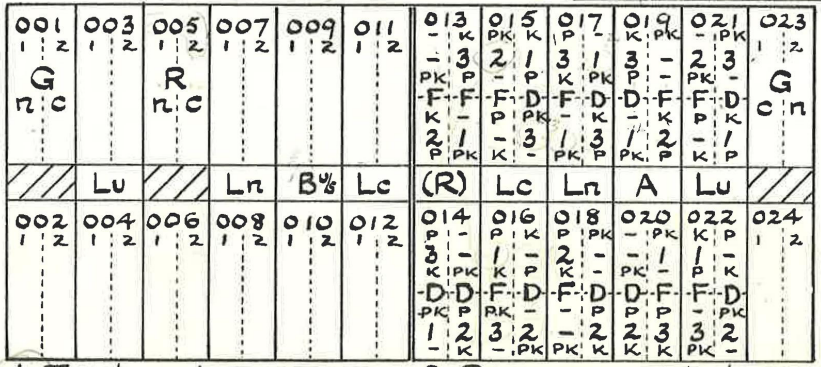
6 BARLEY after Wheat



7. BARLEY after Wheat



8. WHEAT 6th test crop



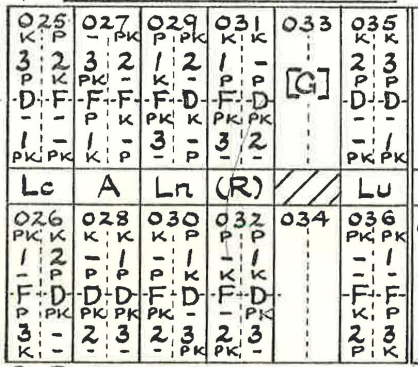
1. Treatment Crops 1st year.

2. POTATOES 1st test crop

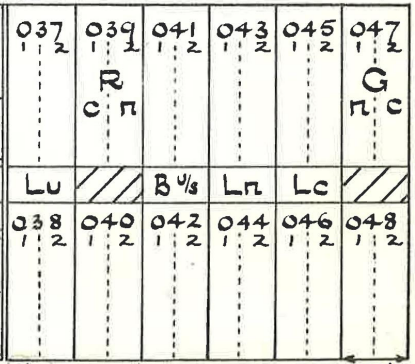
166'

025 026

Sub-plots



3. POTATOES 1st test crop

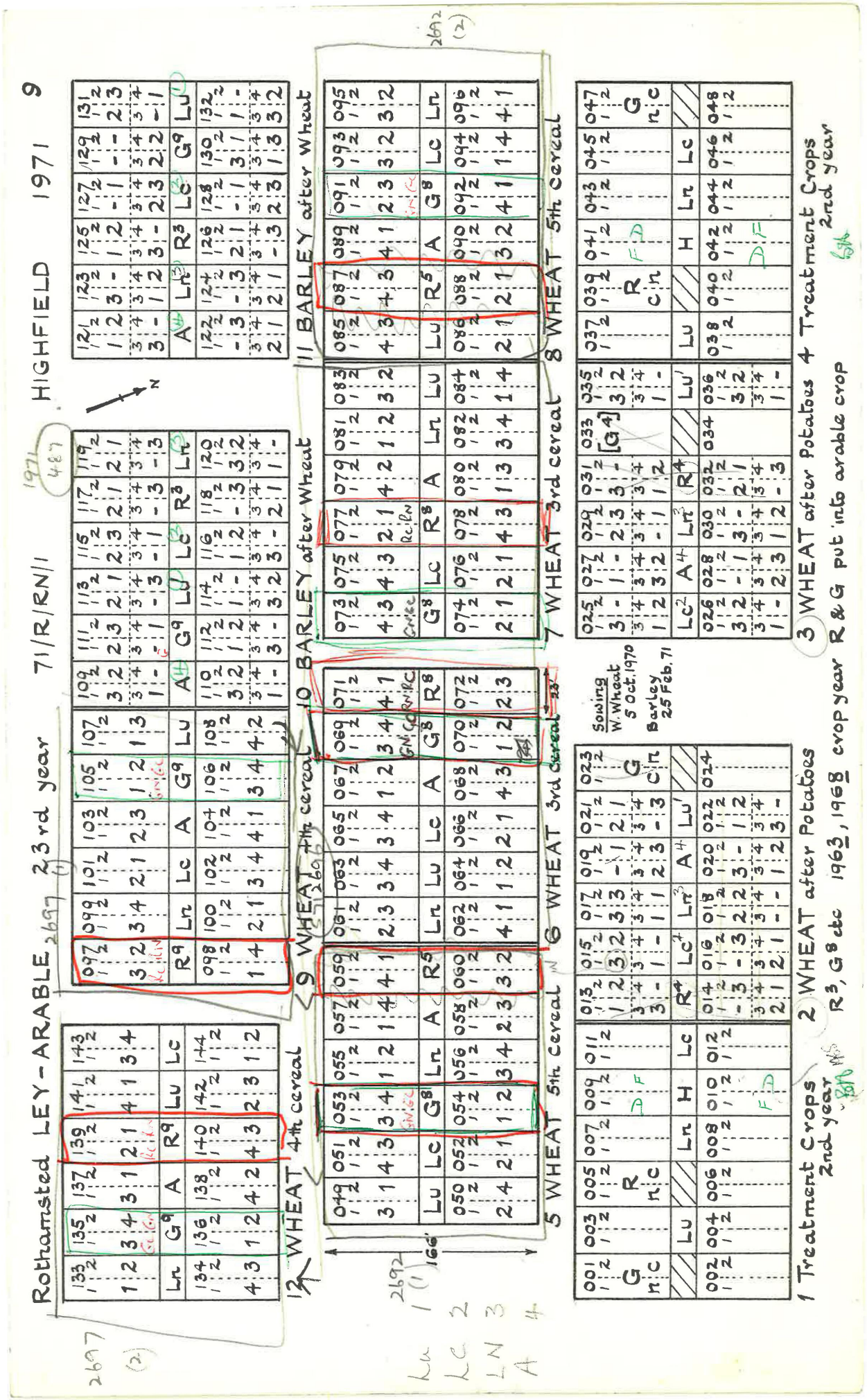


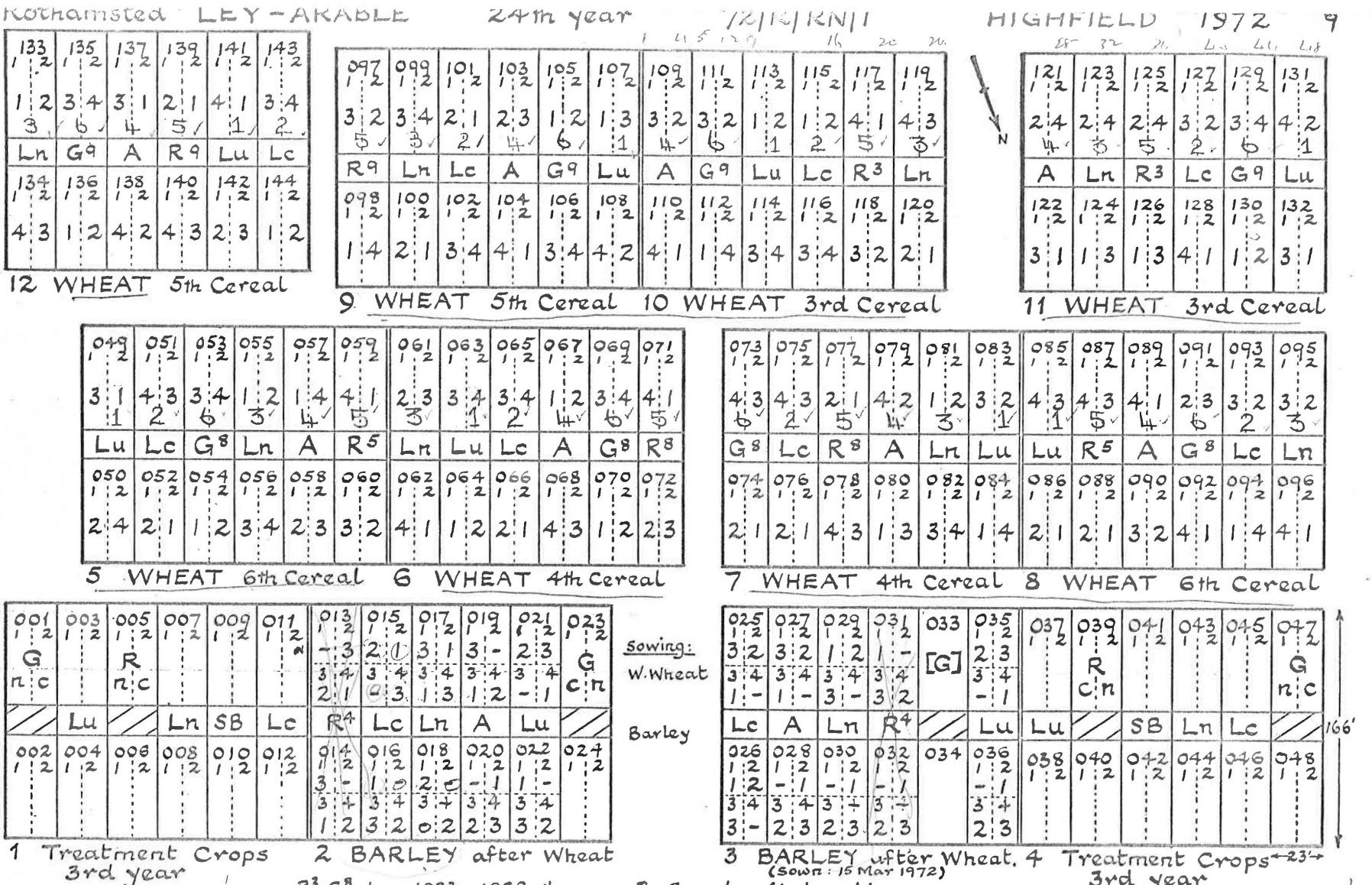
4. Treatment Crops 1st year.

23'

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Rotation

Keep Grass for Potato block + Treatment block scheduled

Rothamsted LEY-ARABLE 25th year 73/R/RN/1 HIGHFIELD 1973

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

N

133½	135½	137½	139½	141½	143½
1 2	3 4	3 1	2 1	4 1	3 4
Ln	G9	A	R9	Lu	Lc
134½	136½	138½	140½	142½	144½
4 3	1 2	4 2	4 3	2 3	1 2

12 Wheat 6th Cereal
WW drilled 24 Oct. 1972

097½	099½	101½	103½	105½	107½
3 2	3 4	2 1	2 3	1 2	1 3
R9	Ln	Lc	A	G9	Lu
098½	100½	102½	104½	106½	108½
1 4	2 1	3 4	4 1	3 4	4 2

9 Wheat 6th Cereal

109½	111½	113½	115½	117½	119½
3 2	3 2	1 2	1 2	4 1	4 3
A	G9	Lu	Lc	R3	Ln
110½	112½	114½	116½	118½	120½
4 1	1 4	3 4	3 4	3 2	2 1

10 Wheat 4th Cereal

121½	123½	125½	127½	129½	131½
2 4	2 4	2 4	3 2	3 4	4 2
A	Ln	R3	Lc	G9	Lu
122½	124½	126½	128½	130½	132½
3 1	1 3	1 3	4 1	1 2	3 1

11 Wheat 4th Cereal

049½	051½	053½	055½	057½	059½
3 1	4 3	3 4	1 2	1 4	4 1
Lu	Lc	G8	Ln	A	R5
050½	052½	054½	056½	058½	060½
2 4	2 1	1 2	3 4	2 3	3 2

5 Wheat 7th Cereal

061½	063½	065½	067½	069½	071½
2 3	3 4	3 4	1 2	3 4	4 1
Ln	Lu	Lc	A	G8	R8
062½	064½	066½	068½	070½	072½
4 1	1 2	2 1	4 3	1 2	2 3

6 Wheat 5th Cereal

073½	075½	077½	079½	081½	083½
4 3	4 3	2 1	4 2	1 2	3 2
G8	Lc	R8	A	Ln	Lu
074½	076½	078½	080½	082½	084½
2 1	2 1	4 3	1 3	3 4	1 4

7 Wheat 5th Cereal

085½	087½	089½	091½	093½	095½
4 3	4 3	4 1	2 3	3 2	3 2
Lu	R5	A	G8	Lc	Ln
086½	088½	090½	092½	094½	096½
2 1	2 1	3 2	4 1	1 4	4 1

8 Wheat 7th Cereal

Potato sub-plots

Variety : Cappelle

28'

001½	003½	005½	007½	009½	011½	013½	015½	017½	019½	021½	023½
G	2 3	R	1 0	0 0	1 1	R					G
n c	D –	n c	D –	D –	D –	c n					c n
	3 4		0 1	3 2	0 3						
	Lu		Ln	A	Lc		Lc	Ln	H	Lu	
002½	004½	006½	008½	010½	012½	014½	016½	018½	020½	022½	024½
	2 1		3 3	1 2	2 0						
	– D		D –	– D	D –						
	3 0 4 3		2 2	3 1	3 2						

1 POTATOES 1st Test Crop

2 Treatment Crops 1st year

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

025½	027½	029½	031½	033	035½	037½	039½	041½	043½	045½	047½
			R	[G]		2 1	R	3 1	2 3	3 2	G
			c n			– –	c n	– D	– D	D –	n c
						3 3 4 0		2 0	3 0	1 1	
Lc	H	Ln			Lu	Lu		A	Ln	Lc	
026½	028½	030½	032½	034	036½	038½	040½	042½	044½	046½	048½
						1 0		2 1	1 2	0 3	
						D D 3 4		D –	– D	D –	
						2 3		3 0	0 1	1 2 0	

3 Treatment Crops 1st year

4 POTATOES 1st Test Crop

D FYM last applied in 1968

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

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

Nitrogen Blocks 5-12
1 0·6 cwt N
2 1·0 cwt N
3 1·4 cwt N
4 1·8 cwt N
Applied in spring

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
Ln	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 7th cereal

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 7th cereal 10 Wheat 5th cereal

N

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 5th cereal

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

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	3 4	1 2	3 4	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	2 1	4 3	1 2	2 3

5 Wheat 8th cereal 6 Wheat 6th cereal

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 6th cereal 8 Wheat 8th 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 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	(3) 2	R	1 0	2 0	1 3	R					G
n c	3 4 / 2 3	n c	3 4 / 2 3	3 4 / 0 1	3 4 / 2 2	c n					c n
	Lu		Ln	A	Lc		Lc	Ln	SB	Lu	
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 1 / 3 4 / 0 0		0 2 / 3 4 / 3 1	3 3 / 3 4 / 2 1	3 0 / 3 4 / 0 1						

1 WHEAT 2nd Test crop
2 Treatment crops 2nd year

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

166'
←23→

3 Treatment crops 2nd year
4 WHEAT 2nd Test crop

R3, G8 etc. refers to year R & G was 1st arable crop ie 1963, 1968

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Rothamsted LEY-ARABLE 27th year 75/R/RN/1 HIGHFIELD 1975

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

Corrected plan - see sub-plots 0572,* and 0582 N treatments transposed in field

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

12 WHEAT 8th cereal

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

9 WHEAT 8th cereal 10 WHEAT 6th cereal

N

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

11 WHEAT 6th cereal

W.W. Cappelle sown at 180lb/a with 336lb/a of (0:20:20) combine drilled

Sown
Blks 1+4 on 31 Oct
Blks 5-12 on 30 Oct.

049 1/2	051	053	055	057*	059	061 1/2	063	065	067	069	071
3 1	4 3	3 4	1 2	1 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 1/2	064	066	068	070	072
2 4	2 1	1 2	3 4	2 4	3 2	4 1	1 2	2 1	4 3	1 2	2 3

5 WHEAT (9th cereal) 6 WHEAT 7th cereal

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	R8	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)

* 75/CS/169 New treatments to Rn, blocks 1-4

Sub-plot numbering

011 1/2	
3 4	
012 1/2	
3 4	

001 1/2	003	005	007	009	011
G	1 1	* R	0 0	3 0	0 3
n c	3 3	n c	3 3	2 2	3 1
	Lu		Ln	A	Lc
002 1/2	004	006	008	010	012
	2 0		2 1	3 1	1 0
	0 2		1 2	1 0	2 2

1 WHEAT 3rd Test crop

013 1/2	015	017	019	021	023
R*					G
c n					c n
	Lc	Ln	O	Lu	
014 1/2	016	018	020	022	024

2 Treatment crops 3rd year

025 1/2	027	029	031	033	035
			R*	[G]	
			c n		
Lc	O	Ln			Lu
026 1/2	028	030	032	034	036

3 Treatment crops 3rd year

037 1/2	039	041	043	045	047
3 2	R*	0 1	3 3	3 3	G
0 1	c n	3 2	0 2	1 2	n c
Lu		A	Ln	Lc	
038 1/2	040	042	044	046	048
1 2		0 2	2 0	2 0	
0 3		3 1	1 1	0 1	

4 WHEAT 3rd Test crop (2nd cereal)

←23→

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

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Rothamsted LEY-ARABLE 28th Year 76/R/RN/1 HIGHFIELD 1976

Sponsors: 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	136	138	140	142	144
4 3	1 2	4 2	4 3	2 3	1 2

12 WHEAT 9th Cereal
Cappelle Sown 22.10.75

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	100	102	104	106	108	110	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

9 WHEAT 9th Cereal 10 WHEAT 7th Cereal

N

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	124	126	128	130	132
3 1	1 3	1 3	4 1	1 2	3 1

11 WHEAT 7th Cereal

049	051	053	055	057	059
(no cross cultivations)					
FALLOW					
Lu	Lc	G3	Ln	A	R5

061 1 2	063	065	067	069	071
2 3	3 4	3 4	1 2	3 4	4 1
Ln	Lu	Lc	A	G3	R3
062	064	066	068	070	072
4 1	1 2	2 1	4 3	1 2	2 3

5 Potatoes: Variety Pentland Crown. 6 WHEAT 8th Cereal

073 1 2	075	077	079	081	083
4 3	4 3	2 1	4 2	1 2	3 2
G3	Lc	R3	A	Ln	Lu
074	076	078	080	082	084
2 1	2 1	4 3	1 3	3 4	1 4

085	087	089	091	093	095
FALLOW					
Lu	R5	A	G3	Lc	Ln

23'

7 WHEAT 8th Cereal 8

* 76/CS/169 New treatments to RN. blocks 1-4

N

001 1 2	003	005	007	009	011
G		*R			
n c		n c			
FYM 15					
///	Lu	///	Ln	H	Lc
002	004	006	008	010	012

013	015	017	019	021	023
*R (2) 3	3 2	2 1	2 1	G	
c n (F) D	F D	D F	F D	c n	
///	(Lc)	Ln	A	Lu	///
014	016	018	020	022	024
	- 1	1 -	- 3	- 3	
	F D	F D	D F	F D	

025	027	029	031	033	035
- 3	- 2	- 1	*R	[G]	2 -
D F	F F	F D	c n		D D
Lc	A	Ln	///	///	Lu
026	028	030	032	034	036
1 2 3	1 2 3				1 3
F D	D D	F D			F F

037 1 2	039	041	043	045	047
	*R				G
	c n				n c
Lu	///	H	Ln	Lc	///
038	040	042	044	046	048

166'

1 Treatment Crops 1st year
2 POTATOES (PWW) 1st Test crop
3 POTATOES (PWW) 1st Test Crop
4 Treatment Crops 1st Year

NOTE: R3, G3 etc. refers to year R&G under 1st arable crop i.e. 1963, 1968 Residuals: F, D None, Dung

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Rothamsted LEY-ARABLE 29th Year 77/R/RN/1 HIGHFIELD 1977

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

WHEAT (Blocks 2+3): Baffelle, test N, -, 1, 2, 3: 0, 50, 100, 150 kg N/ha Yields required

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

NEW SEQUENCES (Blocks 5+8):

LU Lucerne as hitherto, variety resistant to Verticillium

LC Grass/clover ley as hitherto, species mixture unchanged

RG Perennial ryegrass (2 years) - farm choice of variety

RG† As RG but not ploughed after 2 years

B Barley, Julia

O Oats, Mascot

ALL SPRING (1977) SOWN

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

12

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

9 10 WHEAT 8th Cereal

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

N

11 WHEAT 8th Cereal

049	051	053	055	057	059	061	063	065	067	069	071
Lu	Lc	RG†	RG	O	B	Ln	Lu	Lc	A	G8	R8
050	052	054	056	058	060	062	064	066	068	070	072
(Lu)	(Lc)	(G8)	(Ln)	(A)	(R5)						

5 NEW SEQUENCES 6 WHEAT 9th Cereal

073	075	077	079	081	083	085	087	089	091	093	095
G8	Lc	R8	A	Ln	Lu	Lu	B	O	RG†	Lc	RG
074	076	078	080	082	084	086	088	090	092	094	096
						(Lu)	(R5)	(A)	(G8)	(Lc)	(Ln)

7 WHEAT 9th Cereal 8 NEW SEQUENCES 23'

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 P	F D	c n
///	Lu	///	Ln	Sb	Lc	///	Lc	Ln	A	Lu	///
002	004	006	008	010	012	014	016	018	020	022	024
							- 1	1 -	- 3	- 3	
							F D	F D	D F	F D	

1 Treatment Crops 2nd Year 2 WHEAT (P.W.W) 2nd Test Crop

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

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

166'

revised March 1977 incorporating N test to blocks 2 & 3

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

Residuals: F.D None, Dung

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Rothamsted LEY-ARABLE 30th Year 78/R/RN/1 HIGHFIELD 1978

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

CROPPING

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

RG Perennial ryegrass (3 yrs) as 1977

RG† As RG but not ploughed after 3 years

B Barley, Julia

O Oats, Manod

P Potatoes, PenHand 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] Pseudo-old grass

133	135	137	139	141	143
RG	RG†	O	B	Lu	Lc
134	136	138	140	142	144
(Ln)	(G9)	(A)	(R9)	(Lu)	(Lc)

12 NEW SEQUENCES (1ST YEAR)

097	099	101	103	105	107	109	111	113	115	117	119
B	RG	Lc	O	RG†	Lu	A	G9	Lu	Lc	R3	Ln
098	100	102	104	106	108	110	112	114	116	118	120
(R9)	(Ln)	(Lc)	(A)	(G9)	(Lu)						

9 NEW SEQUENCES (1ST YEAR) 10 WHEAT 9th Cereal

N

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

11 WHEAT 9th Cereal

049	051	053	055	057	059	061	063	065	067	069	071
Lu	Lc	RG†	RG	P	B	FALLOW					
050	052	054	056	058	060	062	064	066	068	070	072
(Lu)	(Lc)	(G8)	(Ln)	(A)	(R5)	(Ln)	(Lu)	(Lc)	(A)	(G8)	(R8)

5 NEW SEQUENCES (2ND YEAR) 6

073	075	077	079	081	083
FALLOW					
074	076	078	080	082	084
(G8)	(Lc)	(R8)	(A)	(Ln)	(Lu)

7

085	087	089	091	093	095
Lu	B	P	RG†	Lc	RG
086	088	090	092	094	096
(Lu)	(R5)	(A)	(G8)	(Lc)	(Ln)

8 NEW SEQUENCES (2ND YEAR)

001	003	005	007	009	011	013	015	017	019	021	023
1 2											
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	1 -	- 3	- 3	
							(F)(D)	(F)(D)	(D)(F)	(F)(D)	

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

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

3 WHEAT (P.W.W) 3rd Test Crop

037	039	041	043	045	047
	R				G
	c n				n c
Lu		O	Ln	Lc	
038	040	042	044	046	048

4 Treatment Crops 3rd year

166

33'

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

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

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ROTHAMSTED LEY-ARABLE 31st. YEAR 79/R/RN/1 HIGHFIELD 1979

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

CROPPING

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

- Lu Lucerne, Verlus
- Lc Grass/clover
- RG Perennial ryegrass
- RG+ As RG but not ploughed after 3 years
- BE Beans, Minden
- B Barley, Posthos
- O Oats, Manod
- P Potatoes, Pentland Crown (06.)
- W Wheat, Flanders

POTATOES (Blocks 1 & 4)

Pentland Crown, Test N

-, 1, 2, 3: 0, 80, 160, 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] Pseudo-old grass

133	135	137	139	141	143
RG	RG+	P	B	Lu	Lc
134	136	138	140	142	144
(Ln)	(G4)	(A)	(R4)	(Lu)	(Lc)

12 NEW SEQUENCES (2nd Year)

097	099	101	103	105	107	109	111	113	115	117	119
B	RG	Lc	P	RG+	Lu	FALLOW					
098	100	102	104	106	108	110	112	114	116	118	120
(R4)	(Ln)	(Lc)	(A)	(G4)	(Lu)	(A)	(G4)	(Lu)	(Lc)	(R3)	(Ln)

9 NEW SEQUENCES (2nd year) 10

121	123	125	127	129	131
FALLOW					
122	124	126	128	130	132
(A)	(Ln)	(R3)	(Lc)	(G4)	(Lu)

11

049	051	053	055	057	059	061	063	065	067	069	071
Lu	Lc	RG+	RG	BE	W	RG	Lu	Lc	O	RG+	B
050	052	054	056	058	060	062	064	066	068	070	072
(Lu)	(Lc)	(G8)	(Ln)	(A)	(R5)	(Ln)	(Lu)	(Lc)	(A)	(G8)	(R8)

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

073	075	077	079	081	083	085	087	089	091	093	095
RG+	Lc	B	O	RG	Lu	Lu	W	BE	RG+	Lc	RG
074	076	078	080	082	084	086	088	090	092	094	096
(G8)	(Lc)	(R5)	(A)	(Ln)	(Lu)	(Lu)	(R5)	(A)	(G8)	(Lc)	(Ln)

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

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

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

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

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

16

28

NOTE: R_3 G_8 etc. refers to year that reseeded (R) and old grass (G) first under arable crop (1963 + 1968 etc.)

(F) (D): ... (residual treatments; c, n, None, 1 + K to, dressed in Spring and after each crop except the last

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