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ROTHAMSTED
RESEARCH

Collection of Plans for the Highfield Ley-arable Experiment

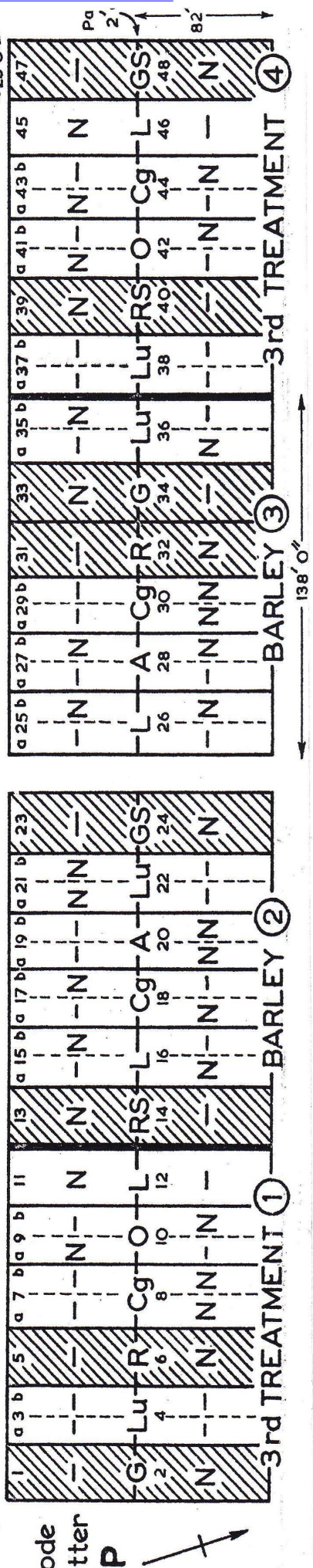
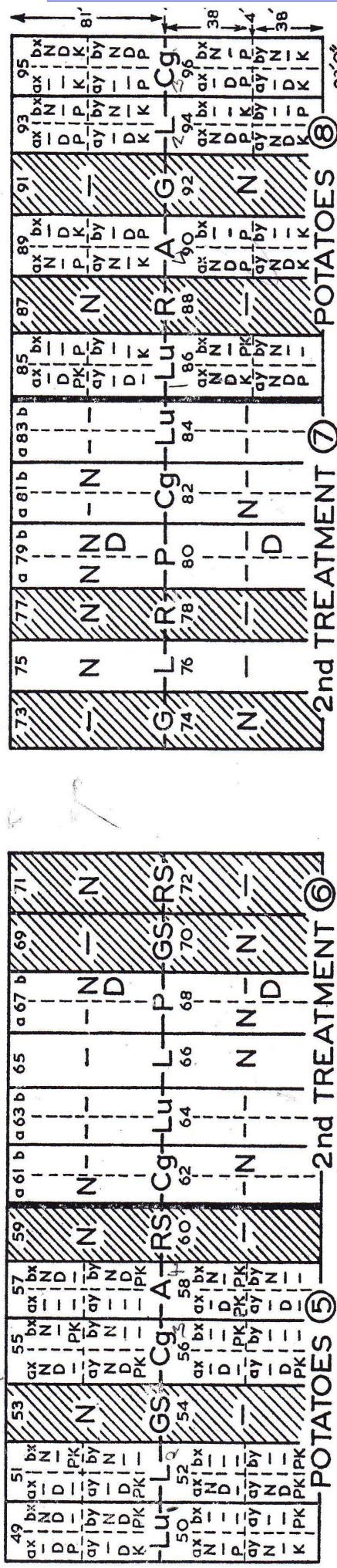
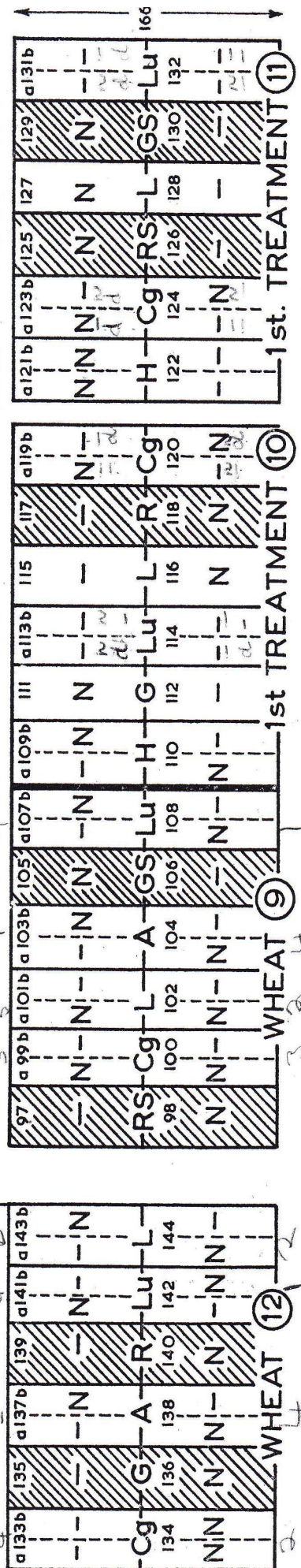
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Highfield Ley-arable 1960-69

Rothamsted Research

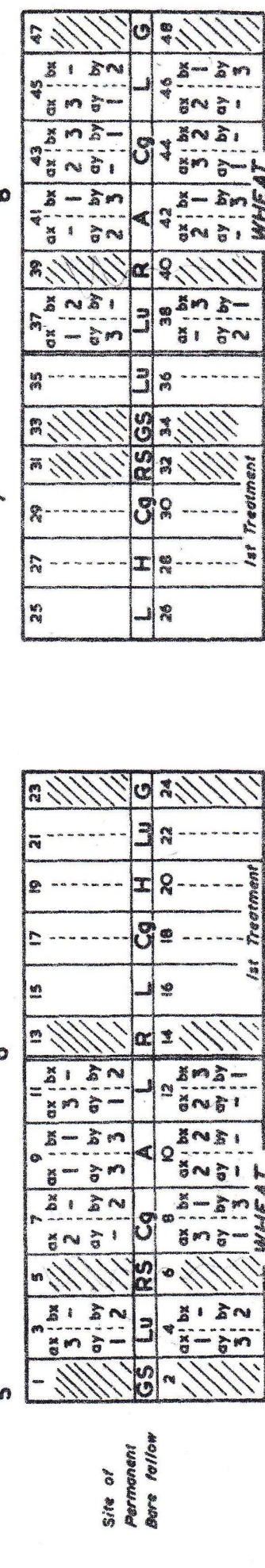
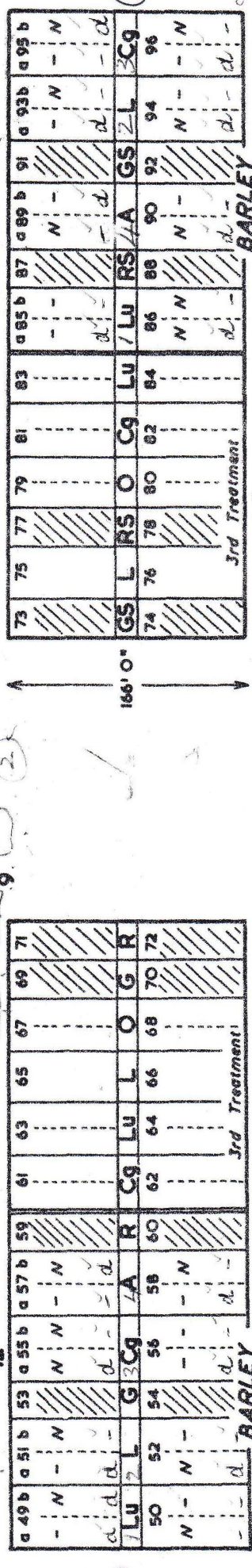
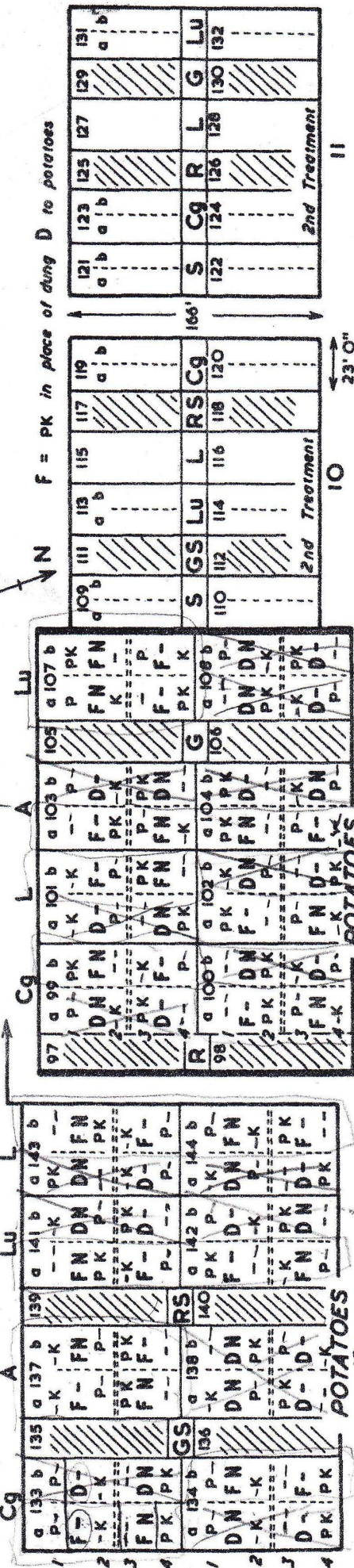
Rothamsted Research (1949-1990) *Highfield Ley-arable 1960-69* ; Collection Of Plans For The Highfield Ley-Arable Experiment, pp 12 - 21

ROTHAMSTED HIGHFIELD LEY-ARABLE ROT NS TWELFTH YEAR 1960

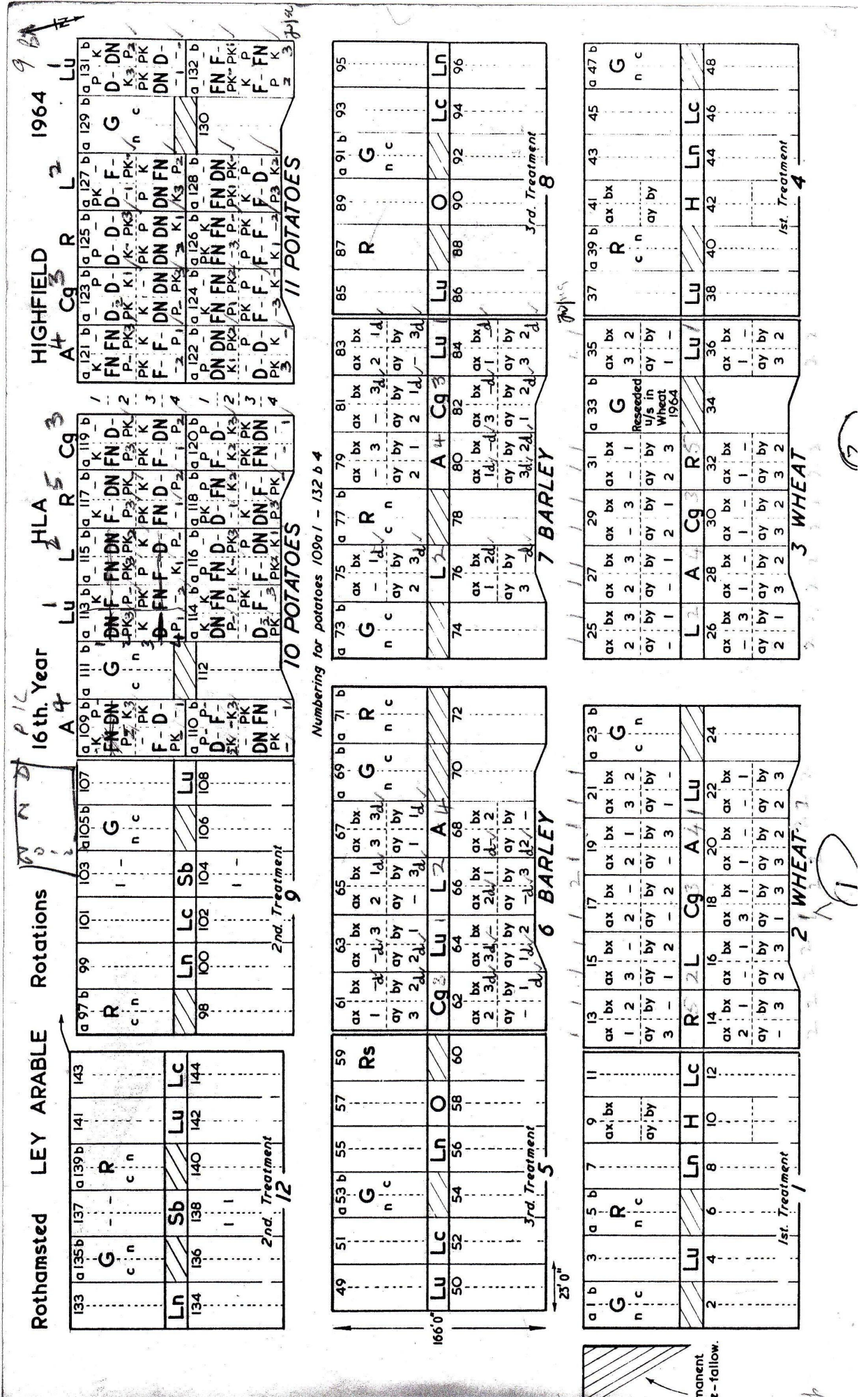


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Rothamsted 4 HIGHFIELD ZEY - ARABLE ROTATIONS 4 Code letter P 13th Year 1961



Site of Permanent Bars follow



9 **12**
 1516
 Rothamsted LEY - ARABLE 17th Year HLA HIGHFIELD 1965

133	135	137	139	141	143	97 ^b	99	101	103	105	107	109	111	113	115	117	119	121	123	125	127	129	131	
Ln	G	O	R			R	Ln	Ln		G		Ln	G	3	2	3	1	3	1	2	1	3	1	3
	c		n			c				n		ay	c	ay	ay	ay	ay	ay	ay	ay	ay	ay	ay	ay
134	136	138	140	142	144	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	
						Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	

• Winter nitrogen to Wheat.

49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	
Ln	G	R				Ln	Ln	Ln	Ln	G	R	G	G	R	R	Ln	Ln	Ln	Ln	Ln	G	G	Ln	Ln
	c	n				c				n	c	n	n	n	n						n	n	n	n

1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47
Ln	G	R				Ln	Ln	Ln	Ln	G	R	G	R	R	F	D	D	Ln	Ln	Sb	Ln	Ln	Ln
	c	n				c				n	n	n	n	n	n	n							

Perm. bare fallow

HIGHFIELD 1966 10

HLA

18th Year

LEY - ARABLE

133	135	137	139	141	143
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
Lu	A	A	R	R	LC
134	136	138	140	142	144
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
Lu	A	A	R	R	LC

97	99	101	103	105	107
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
R	LC	LC	A	G	Lu
98	100	102	104	106	108
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
Lu	LC	LC	A	G	Lu

109	111	113	115	117	119
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
H	Lu	Lu	LC	R	Lr
110	112	114	116	118	120
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
H	Lu	Lu	LC	R	Lr

121	123	125	127	129	131
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
H	Lr	R	LC	G	Lu
122	124	126	128	130	132
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
H	Lr	R	LC	G	Lu

49	51	53	55	57	59
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
D	D	G	D	F	D
Lu	LC	R	Lr	A	R
50	52	54	56	58	60
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
F	F	D	D	F	F
Lu	LC	R	Lr	A	R

61	63	65	67	69	71
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
Lr	Lu	LC	Sb	G	R
62	64	66	68	70	72
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
Lr	Lu	LC	Sb	G	R

73	75	77	79	81	83
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
G	R	R	c	Sb	Lu
74	76	78	80	82	84
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
G	R	R	c	Sb	Lu

85	87	89	91	93	95
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
D	F	F	D	F	D
Lu	R	A	LC	Lr	R
86	88	90	92	94	96
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
D	F	F	D	F	D
Lu	R	A	LC	Lr	R

Perm.
bare
follow

1	3	5	7	9	11
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
G	R	R	R	R	LC
2	4	6	8	10	12
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
Lu	Lu	Lu	Lr	O	LC

13	15	17	19	21	23
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
3	1	1	2	3	G
14	16	18	20	22	24
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
2	1	1	2	3	LC

25	27	29	31	33	35
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
1	3	1	1	(G)	1
26	28	30	32	34	36
ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3	ax:bx 2:3
1	2	3	1	1	1

16

17

11

HIGHFIELD 1967

HLA

19th. Year

ROTHAMSTED LEY - ARABLE

12 POTATOES

133	a ₁ b	F D	02.13	Ln	136	D D	02.13
135	a ₁ b	G c n	02.13	A	138	D D	02.13
137	a ₁ b	F F	02.13	Lu	140	F D	02.13
139	a ₁ b	R c n	13.13	Lu	142	F D	02.13
141	a ₁ b	F D	02.13	Lu	144	F D	02.13

10 POTATOES

97	a ₁ b	R c n	02.13	Lu	100	F D	02.13
99	a ₁ b	D F	02.13	Ln	102	F D	02.13
101	a ₁ b	D F	02.13	Lc	104	F D	02.13
103	a ₁ b	F D	02.13	A	106	D D	02.13
105	a ₁ b	G n c	02.13	Lu	108	D D	02.13
107	a ₁ b	F F	02.13	Lu	110	D D	02.13
109	a ₁ b	A c n	02.13	Sb	112	F D	02.13
111	a ₁ b	G c n	02.13	Lu	114	F D	02.13
113	a ₁ b	a ₁ b	02.13	Lc	116	F D	02.13
115	a ₁ b	a ₁ b	02.13	Lc	118	F D	02.13
117	a ₁ b	(R)	02.13	Sb	120	F D	02.13
119	a ₁ b	a ₁ b	02.13	Ln	122	F D	02.13

2nd Treatment

121	a ₁ b	A	123	Ln	124	Sb	126	Sb	128	Lc	130	Lu
123	a ₁ b	a ₁ b	125	(R)	127	a ₁ b	129	G	131	a ₁ b	132	Lu
125	a ₁ b	a ₁ b	127	a ₁ b	129	G	131	a ₁ b	133	a ₁ b	135	Lu

1, 2, 3, 4

Permanent bare fallow

BARLEY

49	a ₁ b	Lu	51	a ₁ b	Lu	53	a ₁ b	Lu	55	a ₁ b	Lu
51	a ₁ b	Lu	53	a ₁ b	Lu	55	a ₁ b	Lu	57	a ₁ b	Lu
53	a ₁ b	Lu	55	a ₁ b	Lu	57	a ₁ b	Lu	59	a ₁ b	Lu
55	a ₁ b	Lu	57	a ₁ b	Lu	59	a ₁ b	Lu	61	a ₁ b	Lu
57	a ₁ b	Lu	59	a ₁ b	Lu	61	a ₁ b	Lu	63	a ₁ b	Lu
59	a ₁ b	Lu	61	a ₁ b	Lu	63	a ₁ b	Lu	65	a ₁ b	Lu
61	a ₁ b	Lu	63	a ₁ b	Lu	65	a ₁ b	Lu	67	a ₁ b	Lu
63	a ₁ b	Lu	65	a ₁ b	Lu	67	a ₁ b	Lu	69	a ₁ b	Lu
65	a ₁ b	Lu	67	a ₁ b	Lu	69	a ₁ b	Lu	71	a ₁ b	Lu
67	a ₁ b	Lu	69	a ₁ b	Lu	71	a ₁ b	Lu	73	a ₁ b	Lu
69	a ₁ b	Lu	71	a ₁ b	Lu	73	a ₁ b	Lu	75	a ₁ b	Lu
71	a ₁ b	Lu	73	a ₁ b	Lu	75	a ₁ b	Lu	77	a ₁ b	Lu
73	a ₁ b	Lu	75	a ₁ b	Lu	77	a ₁ b	Lu	79	a ₁ b	Lu
75	a ₁ b	Lu	77	a ₁ b	Lu	79	a ₁ b	Lu	81	a ₁ b	Lu
77	a ₁ b	Lu	79	a ₁ b	Lu	81	a ₁ b	Lu	83	a ₁ b	Lu
79	a ₁ b	Lu	81	a ₁ b	Lu	83	a ₁ b	Lu	85	a ₁ b	Lu
81	a ₁ b	Lu	83	a ₁ b	Lu	85	a ₁ b	Lu	87	a ₁ b	Lu
83	a ₁ b	Lu	85	a ₁ b	Lu	87	a ₁ b	Lu	89	a ₁ b	Lu
85	a ₁ b	Lu	87	a ₁ b	Lu	89	a ₁ b	Lu	91	a ₁ b	Lu
87	a ₁ b	Lu	89	a ₁ b	Lu	91	a ₁ b	Lu	93	a ₁ b	Lu
89	a ₁ b	Lu	91	a ₁ b	Lu	93	a ₁ b	Lu	95	a ₁ b	Lu

6

BARLEY

61	a ₁ b	Ln	62	a ₁ b	Ln	63	a ₁ b	Ln	64	a ₁ b	Ln	65	a ₁ b	Ln	66	a ₁ b	Ln	67	a ₁ b	Ln	68	a ₁ b	Ln	69	a ₁ b	Ln	70	a ₁ b	Ln	71	a ₁ b	Ln	72	a ₁ b	Ln
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7

BARLEY

73	a ₁ b	G	74	a ₁ b	n c	75	a ₁ b	R	76	a ₁ b	Lc	77	a ₁ b	R	78	a ₁ b	c n	79	a ₁ b	O	80	a ₁ b	O	81	a ₁ b	a ₁ b	82	a ₁ b	Ln	83	a ₁ b	Lu
----	------------------	---	----	------------------	-----	----	------------------	---	----	------------------	----	----	------------------	---	----	------------------	-----	----	------------------	---	----	------------------	---	----	------------------	------------------	----	------------------	----	----	------------------	----

8

BARLEY

85	a ₁ b	Lu	86	a ₁ b	Lu	87	a ₁ b	Lu	88	a ₁ b	Lu	89	a ₁ b	Lu	90	a ₁ b	Lu	91	a ₁ b	Lu	92	a ₁ b	Lu	93	a ₁ b	Lu	94	a ₁ b	Lu	95	a ₁ b	Lu
----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----

2

WHEAT

13	a ₁ b	(R)	14	a ₁ b	H	15	a ₁ b	Lc	16	a ₁ b	Ln	17	a ₁ b	Ln	18	a ₁ b	Ln	19	a ₁ b	H	20	a ₁ b	H	21	a ₁ b	Ln	22	a ₁ b	Lu	23	a ₁ b	G	24	a ₁ b	c n
----	------------------	-----	----	------------------	---	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	---	----	------------------	---	----	------------------	----	----	------------------	----	----	------------------	---	----	------------------	-----

3

WHEAT

25	a ₁ b	Lc	26	a ₁ b	Lc	27	a ₁ b	H	28	a ₁ b	H	29	a ₁ b	Ln	30	a ₁ b	Ln	31	a ₁ b	H	32	a ₁ b	H	33	a ₁ b	(R)	34	a ₁ b	G	35	a ₁ b	Lu
----	------------------	----	----	------------------	----	----	------------------	---	----	------------------	---	----	------------------	----	----	------------------	----	----	------------------	---	----	------------------	---	----	------------------	-----	----	------------------	---	----	------------------	----

4

WHEAT

37	a ₁ b	Lu	38	a ₁ b	Lu	39	a ₁ b	Lu	40	a ₁ b	Lu	41	a ₁ b	Lu	42	a ₁ b	Lu	43	a ₁ b	Lu	44	a ₁ b	Lu	45	a ₁ b	Lu	46	a ₁ b	Lu	47	a ₁ b	Lu	48	a ₁ b	Lu
----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----	----	------------------	----

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Rothamsted LEY - ARABLE HIGHFIELD 1968 11

12 BARLEY

133	ax:bx	137	a b	141	ax:bx	143	ax:bx
12	1 2	2 3	R	-	-	3	by
	ay:by	ay:by	c n	2 2	2 2	1	
	3 -	-	-	-	-	-	-
	Ln	A	Lu Lc				
134	ax:bx	138	ax:bx	142	ax:bx	144	ax:bx
	3 -	-	1 1	3 -	-	-	-
	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by
	1 2	2 1	3 3	1 2			

9 BARLEY

97	a b	99	ax:bx	101	ax:bx	103	ax:bx	105	a b	107	ax:bx	109	a b	111	a b	113	Lu Lc	115	Ln	117	(R)	119		
	R	2 2	3 -	-	-	G	2 1	-	G	2 1	-	c n	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by
	c n	-	1 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	
	Ln	Lc	A	Lu	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	
98	ax:bx	100	ax:bx	102	ax:bx	104	ax:bx	106	ax:bx	108	ax:bx	110	ax:bx	112	ax:bx	114	ax:bx	116	ax:bx	118	ax:bx	120	ax:bx	
	3 1	3 2	1 3	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	
	1 3	1 -	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1	3 1 1		

10 BARLEY

109	a b	111	a b	113	Lu Lc	115	Ln	117	(R)	119	
	c n	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by
	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by
	Ln	Lc	A	Lu	Ln	Ln	Ln	Ln	Ln	Ln	Ln
108	ax:bx	100	ax:bx	102	ax:bx	104	ax:bx	106	ax:bx	108	ax:bx
	2 1	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by
	-	3	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by

11 WHEAT

121		123		125	(R)	127	a b	129	a b	131	G n c
	O	Lr	O	Lc	Lc	Lc	Lc	Lc	Lc	Lc	Lc
122	ax:bx	124	ax:bx	126	ax:bx	128	ax:bx	130	ax:bx	132	ax:bx
	3rd Treatment										



5 WHEAT

49	ax:bx	51	ax:bx	53	ax:bx	55	ax:bx	57	ax:bx	59	ax:bx
	2 3	3 -	-	-	3 1	3 1	3 1	3 1	3 1	3 1	
	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	
	-	1 1	2 2	2 1	1 3	1 3	1 3	1 3	1 3	1 3	
	Lu Lc	(G)	Ln	A	(R)						
50	ax:bx	52	ax:bx	54	ax:bx	56	ax:bx	58	ax:bx	60	ax:bx
	2 1	-	1 3	1 3	2 -	-	-	-	-	-	
	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	
	-	3 2	3 1	3 1	1 -	2 2	2 2	2 2	2 2	2 2	

6 POTATOES*

61	a b	63	a b	65	a b	67	a b	69	a b	71	a b
	-	-	-	-	-	-	-	-	-	-	-
	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK
	Ln	Lu	Lc	A	(G)	(R)					
62	a b	64	a b	66	a b	68	a b	70	a b	72	a b
	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	
	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	
	-	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	

7 POTATOES*

73	a b	75	a b	77	a b	79	a b	81	a b	83	a b
	-	-	-	-	-	-	-	-	-	-	-
	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK	PK:PK
	(G)	Lc	(R)	A	Ln	Lu					
74	a b	76	a b	78	a b	80	a b	82	a b	84	a b
	3 3	3 3	3 3	3 3	3 3	3 3	3 3	3 3	3 3	3 3	
	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	
	-	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	

8 WHEAT

85	ax:bx	87	ax:bx	89	ax:bx	91	ax:bx	93	ax:bx	95	ax:bx
	-	3 1	3 3	3 1	-	-	-	-	-	-	-
	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	
	2 1	3 1	1 1	3 2	2 3	2 2	2 2	2 2	2 2	2 2	
	Lu	(R)	A	(G)	Lc	Ln					
86	ax:bx	88	ax:bx	90	ax:bx	92	ax:bx	94	ax:bx	96	ax:bx
	1 -	2 -	-	-	2 -	-	-	-	-	-	
	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	ay:by	
	3 2	-	2 2	-	2 3	1 -	-	-	-	-	

2 POTATOES

23	G	21	G	19	G	17	G	15	G	13	(R)	11	G	9	G	7	G	5	G	3	G	1	G	
	n c	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n	c n
	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln	Ln
24	ax:bx	22	ax:bx	20	ax:bx	18	ax:bx	16	ax:bx	14	ax:bx	12	ax:bx	10	ax:bx	8	ax:bx	6	ax:bx	4	ax:bx	2	ax:bx	
	2nd Treatment																							

3 POTATOES

25	Lc	27	Sb	29	Ln	31	Sb	33	Lu	35	Lu
	(R)	[G]									
26	ax:bx	28	ax:bx	30	ax:bx	32	ax:bx	34	ax:bx	36	ax:bx
	2nd Treatment										
27	ax:bx	29	ax:bx	31	ax:bx	33	ax:bx	35	ax:bx	37	ax:bx
	3	4	3	4	3	4	3	4	3	4	3

