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ROTHAMSTED
RESEARCH

Collection of Plans for the Fosters Ley-arable Experiment

[Full Table of Content](#)

All the Plans

Rothamsted Research

Rothamsted Research (1949-1990) *All the Plans* ; Collection Of Plans For The Fosters Ley-Arable Experiment, pp 1 - 20

FOSTERS FIELD

LEY AND ARABLE ROTATIONS Experiment

1949 1st Preliminary year

Present crop	W		W		R		W		CgI		R		H		L		Lul			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	a	b	a	b	a	b	a	b	a	b	a	b	a	b	a	b	a	b	a	b
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2

190 lbs

Plot code letter	W		W		R		W		CgI		R		H		L		Lul			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	a	b	a	b	a	b	a	b	a	b	a	b	a	b	a	b	a	b	a	b
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2

35 lbs

Test crop { W Wheat
H Seeds hay
Lul 1 cut then followed
CgI 1st year lucerne
LI 1st year cut grass
R 1st year grazed ley
Permanet 3rd yr 2 cuts
grazed with sheep

Symbol	Crop	cwt. N per acre as nitrochalk N1	(L) (R) (Cg) (Lu) (L) (R) (A) (L) (Lu) (L) (R) (A)	Basal dressing per acre
W	Wheat	0.3	0.6	0.2 cwt. P ₂ O ₅ combine drilled with seed
H	Seeds hay	0.3	0.6	0.15 cwt. P ₂ O ₅ , 0.15 cwt. K ₂ O
Cg ₁	1st year cut grass	0.15 (i)	0.3	0.6 cwt. P ₂ O ₅ , 0.6 cwt. K ₂ O
LI	1st year grazed ley	0.075 (ii)	0.15	0.6 cwt. P ₂ O ₅ , 0.6 cwt. K ₂ O
R	Reseeded grass	0.075 (ii)	0.15	0.3 cwt. P ₂ O ₅ , 0.3 cwt. K ₂ O
Lul	1st year lucerne	-	-	0.6 cwt. P ₂ O ₅ , 0.6 cwt. K ₂ O

The basal dressing is applied as a granulated compound containing 13% P₂O₅ and 13% K₂O.

- (i) 1st dressing of N1 and N2 in spring. Repeated dressings of N1 and N2 at the same rates. After 1st, 2nd and 3rd cut.
- (ii) 1st dressing of N1 and N2 in spring. A second dressing of N1 and N2 later in summer at the same rates.

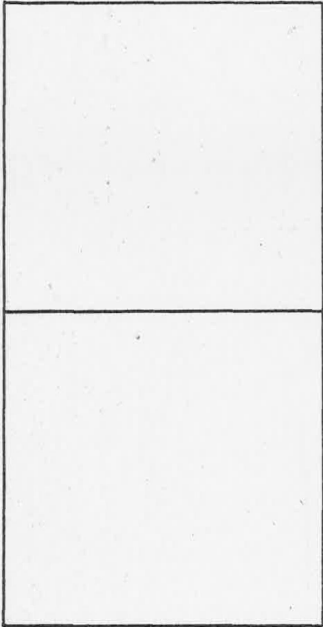
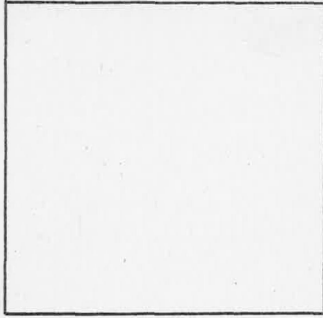
Rotation	Treatment crops	Test crop
(A)	Hay, Potatoes, Barley	Wheat, Potatoes, Barley
(Lu)	1st yr, 2nd yr, 3rd yr lucerne	
(Cg)	1st yr, 2nd yr, 3rd yr cut grass	
(L)	1st yr, 2nd yr, 3rd yr grazed ley	

1/4 plot = 0.02205 acre

For harvested areas see field notebooks
17 rows by 7mch spacing by 124.5 links
82-17 feet

FOSTERS
LEY AND ARABLE ROTATIONS EXPERIMENT

1950 2nd year



Block 10



Block 11

Block 11				Block 12				Present crop						
Li	Cg1	Lu1	R	H	W	W	R	W	W					
61	63	65	67	69	71	73	75	77	79	81	83	85	87	89
N	a	b	N	a	b	a	b	a	b	a	b	a	b	a
2	1		1	2	2	1	2	1	2	1	2	1	2	1
62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
N	a	b	a	a	b	a	b	a	b	a	b	a	b	a
1	2		1	2	1	2	1	2	1	2	1	2	1	2

Block 6

Block 6				Block 7				Block 8				Block 9				Block 4				Block 5																													
P	P	P	R	R	Cg2	R	P	P	P	R	R	P	P	P	R	R	P	P	P	R	R	P	P	P	R	R	P	P	P	R	R	P	P	P	R	R	P	P	P	R	R								
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49		
a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

120' 35' 120'

Farm Road

FOSTERS LEY AND ARABLE ROTATIONS EXPERIMENT

1951 3rd year



Code letter M

111	113	115	117	119	W	W	W	W	W	Present crop
a b	a b	a b	a b	a b	W	W	W	W	W	
N N	N N	N	N N	N N	IR	IR	IR	IR	IR	
2 1	1 1	1	1 2 2	1	W	W	W	W	W	
					IR	IR	IR	IR	IR	
					W	W	W	W	W	
					IR	IR	IR	IR	IR	
					W	W	W	W	W	
					IR	IR	IR	IR	IR	

91	93	95	97	99	101	103	105	107	109	W	W	W	W	W	W	W	W	W	IR
a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	W	W	W	W	W	W	W	W	W	IR
N N	N N	N N	N N	N	N	N	N	N	N	IR	IR	IR	IR	IR	IR	IR	IR	IR	IR
2 2 2	1 1 2	2 2	2 2	1	2	2 1	2 1	2 1	2	W	W	W	W	W	W	W	W	W	IR
										IR	IR	IR	IR	IR	IR	IR	IR	IR	IR
										W	W	W	W	W	W	W	W	W	IR
										IR	IR	IR	IR	IR	IR	IR	IR	IR	IR
										W	W	W	W	W	W	W	W	W	IR
										IR	IR	IR	IR	IR	IR	IR	IR	IR	IR

112	114	116	118	120	(L) (Lu) (R) (A) (Cg)	Rotation
a b	a b	a b	a b	a b	Block 12	
N N	N N	N	N N	N N		
1 2 2 2	2 2	2	1 2 2 1	1		

61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	(L) (Lu) (R) (A) (Cg)	Rotation
a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	Block 12	
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
2	2 1	2 1	1	2 2 2	2 2 2	2 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2		

n,d on treatment crops
N,D on test crops (W,R,B)
(d)(D) residuals of 1950 dung treatments

grazed this yr

92	94	96	98	100	102	104	106	108	110	(Lu) (L) (A) (R) (L) (A) (Cg) (Lu) (R)	Block 10
a b	a b	a b	a b	a b	a b	a b	a b	a b	a b		
N N	N N	N N	N N	N	N	N	N	N	N		
1 1 2 1	1 1	1 1	1 1	2	2 1	2 1	2 1	2 1	1		

51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	(Lu) (R) (L) (Cg) (A)	Block 6
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
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 1		

1	3	5	7	9	11	13	15	17	19	(L) (A) (Lu) (R) (Cg) (R) (A) (L) (Lu)	Block 2
a b	a b	a b	a b	a b	a b	a b	a b	a b	a b		
N N	N N	N N	N N	N N	N N	N N	N N	N N	N N		
1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	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	6	8	10	12	14	16	18	20	(Lu) (Cg) (A) (L) (A) (Lu) (R) (A) (L) (Lu)	Block 3
a b	a b	a b	a b	a b	a b	a b	a b	a b	a b		
N N	N N	N N	N N	N N	N N	N N	N N	N N	N N		
2 1 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2		

21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	(Lu) (Cg) (A) (L) (A) (Lu) (R) (A) (L) (Lu)	Block 5
a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b	a b		
N N	N N	N N	N N	N N	N N	N N	N N	N N	N N	N N	N N	N N	N N	N N		
1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2	1 2 1 2		

arm Road

16 MAR 1951

35 lbs

1200 lbs

1750 lbs

1200 lbs

35 lbs

FOSTERS LEY AND ARABLE ROTATIONS EXPERIMENT

5 FEB 1952

1952 4th year

code letter M.

91	93	95	97	99	101	103	105	107	109
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D
92	94	96	98	100	102	104	106	108	110
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D

111	113	115	117	119
a, b	a, b	a, b	a, b	a, b
N	N	N	N	N
D	D	D	D	D
112	114	116	118	120
a, b	a, b	a, b	a, b	a, b
N	N	N	N	N
D	D	D	D	D



AREA MANURED
¼ plot - ¼5 acre (approx)

51	53	55	57	59
a, b	a, b	a, b	a, b	a, b
N	N	N	N	N
D	D	D	D	D
52	54	56	58	60
a, b	a, b	a, b	a, b	a, b
N	N	N	N	N
D	D	D	D	D

61	63	65	67	69	71	73	75	77	79	81	83	85	87	89
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

91	93	95	97	99	101	103	105	107	109
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D
92	94	96	98	100	102	104	106	108	110
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D

111	113	115	117	119
a, b	a, b	a, b	a, b	a, b
N	N	N	N	N
D	D	D	D	D
112	114	116	118	120
a, b	a, b	a, b	a, b	a, b
N	N	N	N	N
D	D	D	D	D

111	113	115	117	119
a, b	a, b	a, b	a, b	a, b
N	N	N	N	N
D	D	D	D	D
112	114	116	118	120
a, b	a, b	a, b	a, b	a, b
N	N	N	N	N
D	D	D	D	D

121	123	125	127	129	131	133	135	137	139
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D
122	124	126	128	130	132	134	136	138	140
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D

121	123	125	127	129	131	133	135	137	139
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D
122	124	126	128	130	132	134	136	138	140
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D

121	123	125	127	129	131	133	135	137	139
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D
122	124	126	128	130	132	134	136	138	140
a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b	a, b
N	N	N	N	N	N	N	N	N	N
D	D	D	D	D	D	D	D	D	D

6 Year Cropping Cycles:-
 Treatment crops: 3 years Lucerne, 3 years Grazed Ley, 3 years Cut Grass
 A = Hay, Potatoes, Barley
 R = Reseeded Permanent Grass 2 years grazed 3rd year Hay.

Test crops
 Wheat, Potatoes, Barley

All crops (except Lucerne) have nitrogen at single (no symbol) or at double (N) rates
 N = 2 cwt N/c in spring, 2 cwt N/c after each cut.
 Cg = 1 cwt N/c in 1 cwt N/c later in season.
 W = Wheat (W) 4 cwt N/c, Barley (B) 2.7 cwt N/c, Hay (H) 4 cwt N/c.
 Potatoes (P) 5 cwt. sulphate of ammonia
 D = Dung at 12 tons per acre to potato crops only
 n = given in previous 3 year crop sequence
 d = to previous potato crop

Basal P.K. All rotations and permanent grass :- 13 cwt/a superphosphate, 4 cwt/a muriate of potash spread over 6 years (Equivalent Calcium carbonate applied once in 6 years before test crop barley).

LEY AND ARABLE ROTATIONS EXPERIMENT — FOSTERS — 1953 5th year

Code letter M.

91	93	95	97	99	101	103	105	107	109
a	b	a	b	a	b	a	b	a	b
N	D	N	D	N	D	N	D	N	D
N	N	N	N	N	N	N	N	N	N

92	94	96	98	100	102	104	106	108	110
a	b	a	b	a	b	a	b	a	b
N	D	N	D	N	D	N	D	N	D
N	N	N	N	N	N	N	N	N	N



111	113	115	117	119
a	b	a	b	a
N	D	N	D	N
N	N	N	N	N

112	114	116	118	120
a	b	a	b	a
N	D	N	D	N
N	N	N	N	N

Rotation

Present crop

Area manured
1/4 plot - 1/45 acre
(approx.)

Block 10

51	53	55	57	59
a	b	a	b	a
N	D	N	D	N
N	N	N	N	N

52	54	56	58	60
a	b	a	b	a
N	D	N	D	N
N	N	N	N	N

Block 11

61	63	65	67	69	71	73	75	77	79
a	b	a	b	a	b	a	b	a	b
N	D	N	D	N	D	N	D	N	D
N	N	N	N	N	N	N	N	N	N

62	64	66	68	70	72	74	76	78	80
a	b	a	b	a	b	a	b	a	b
N	D	N	D	N	D	N	D	N	D
N	N	N	N	N	N	N	N	N	N

Block 7

Block 6

2	4	6	8	10	12	14	16	18	20
a	b	a	b	a	b	a	b	a	b
N	D	N	D	N	D	N	D	N	D
N	N	N	N	N	N	N	N	N	N

3	5	7	9	11	13	15	17	19
a	b	a	b	a	b	a	b	a
N	D	N	D	N	D	N	D	N
N	N	N	N	N	N	N	N	N

Block 8

21	23	25	27	29	31	33	35	37	39
a	b	a	b	a	b	a	b	a	b
N	D	N	D	N	D	N	D	N	D
N	N	N	N	N	N	N	N	N	N

22	24	26	28	30	32	34	36	38	40
a	b	a	b	a	b	a	b	a	b
N	D	N	D	N	D	N	D	N	D
N	N	N	N	N	N	N	N	N	N

Block 1

6 Year cropping cycles :-
 Treatment crops
 Lu : 3 years Lucerne
 L : 3 years Grazed Ley
 Cg : 3 years Cut Grass
 A : Hay, Potatoes, Barley
 R : Reseeded Permanent Grass 2 years grazed 3rd year hay.

Block 3

Test crops
 Wheat, Potatoes, Barley

Block 4

Dung at 12 tons per acre to potato crops only.
 High nitrogen given in previous 3 year crop sequence.
 Dung to previous potato crop.

Block 5

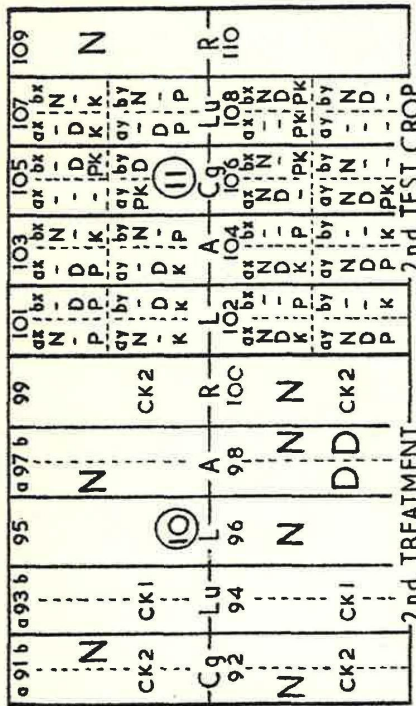
All crops (except Lucerne) have nitrogen at Single (no symbol) & at double (N) rates
 Cg :- 2 cwt. N/c in spring, 2 cwt. N/c after each cut.
 L :- 1 cwt. N/c in spring, 1 cwt. N/c later in season.
 Wheat (W) 4 cwt. N/c, Barley (B) 2.7 cwt. N/c, Hay (H) 4 cwt. N/c.
 Potatoes (P) 5 cwt. sulphate of ammonia.

Basal P.K. All rotations and permanent grass :- 13 c.p.a. Super. 4 c.p.a. Mur/potash spread over 6 years.

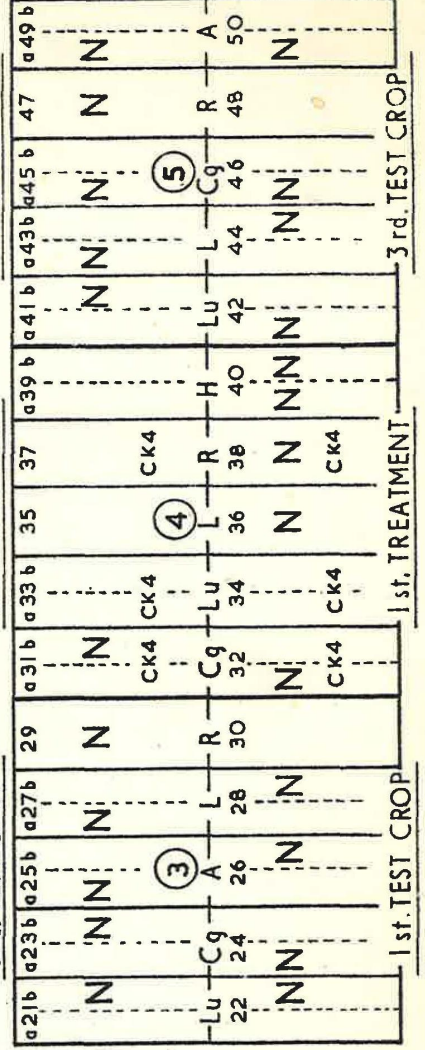
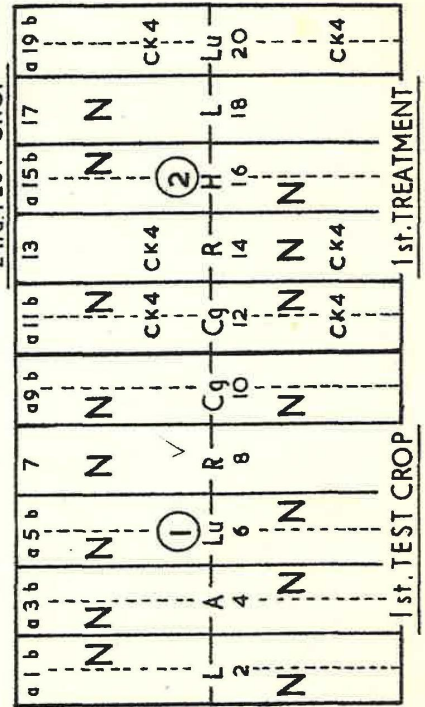
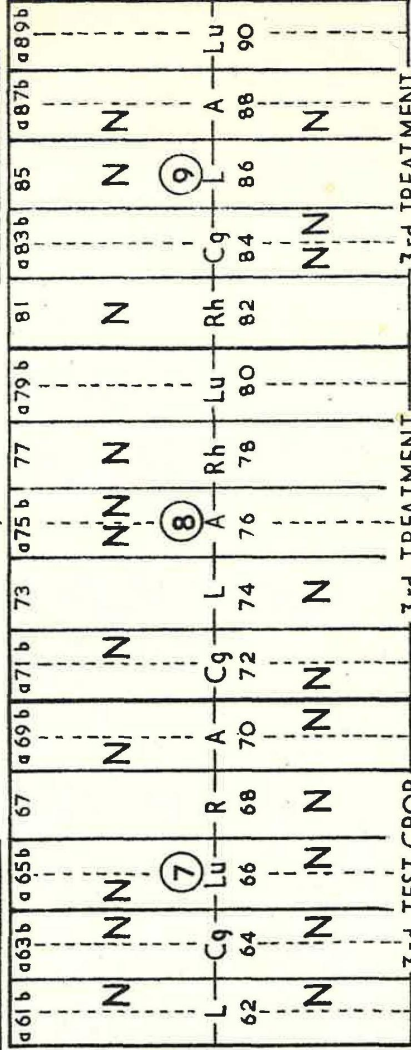
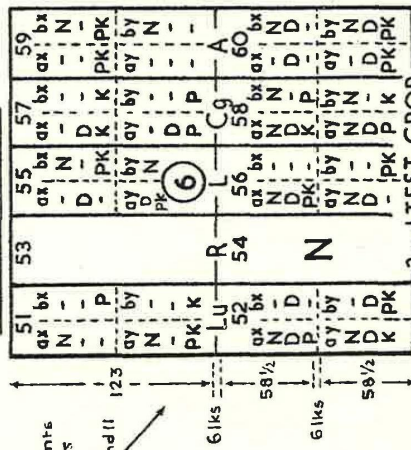
JUN 1955

LEY-ARABLE ROTATIONS FOSTERS

Code Letter M
SEVENTH YEAR
1955



TEST CROPS
1st: Wheat
2nd: Potatoes
3rd: Barley



LEY-ARABLE
ROTATIONS
FOSTERS
Code Letter M
EIGHTH YEAR
1956

18 OCT 1955

a91b	a93b	95	a97b	99	a101b	a103b	a105b	a107b	109
N	N	(10)	N	N	N	N	(11)	N	N
Cg	Lu	L	A	R	L	A	Cg	Lu	R
92	94	96	98	100	102	104	106	108	110
N	N	N	N	N	N	N	N	N	N

3rd. Treatment Barley

a51b	53	a55b	a57b	a59b
N	N	(6)	N	N
Lu	R	L	Cg	A
52	54	56	58	60
N	N	N	NN	N

35 lks Barley

a61b	a63b	a65b	67	a69b	a71b	a73b	a75b	77	a79b	81	a83b	a85b	a87b	a89b
N	N	(7)	N	N	N	N	(8)	N	N	N	N	(9)	N	N
L	Cg	Lu	Rh	H	Cg	L	A	R	Lu	R	Cg	L	A	Lu
62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
N	N	N	N	N	N	N	NN	NN	NN	NN	N	N	N	N

1st. Treatment Wheat

a11b	13	a15b	17	a19b
N	N	D	(2)	N
Cg	R	A	L	Lu
12	14	16	18	20
N	N	N	N	N

2nd. Treatment Potatoes

a21b	a23b	a25b	a27b	a29b	a31b	a33b	35	a37b	a39b	a41b	a43b	a45b	a47b	a49b
ax	bx	ax	bx	N	N	N	(4)	R	D	N	N	(5)	N	N
-	-	-	-	-	-	-	L	A	A	Lu	L	Cg	Rh	H
22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
N	N	N	N	N	N	N	N	N	NN	N	N	N	N	N

1st. Treatment Potatoes

W heat - 1/2' of row per
quarter plot sampled

3 lks
Cross path
124 1/2

123
6 lks
58 1/2
6 lks
58 1/2

Wheat 8' of row per plot sampled.

LEY-ARABLE ROTATIONS FOSTERS Code Letter M NINTH YEAR 1957

a91b 3 N	a93b 1 N	a95b 2 N	a97b 4 N	99 - N	101 - N	a103b 1 N	a105b 1 N	107b - N	109 - N
Cg	Lu	L	A	R	L	H	Cg	Lu	Rh
92 3 3	94 1 1	96 2 2	98 4 4	100 - N	102 - -	104 - N	106 - N	108 110 - -	-

a111b 3 N	a113b 1 N	115 - N	117b 4 N	a119b 3 N
L	Lu	R	A	Cg
112 2 2	114 1 1	116 2 2	118 4 4	120 3 3

a51b - N	53 - N	a55b - N	a57b - N	a59b - N
Lu	Rh	L	Cg	H
52 - N	54 - N	56 - N	58 - N	60 - N

61 N	a63b - N	a65b - N	67 - N	a69b - N	71 N	73 N	75 N	77 N	79 N	81 N	83 N	85 N	87 N	89 N
L	Cg	Lu	R	P	Cg	L	A	R	Lu	R	Cg	L	A	Lu
62 - -	64 - N	66 - N	68 - N	70 - D	72 N	74 N	76 N	78 -	80 N	82 -	84 N	86 N	88 N	90 N

a15 2 N	a35 4 N	a55 - N	a75 - N	a95 3 N	7 N	a115 - N	a135 - N	a155 - N	a175 - N	a195 - N
L	A	Lu	O	Cg	R	Lu	Cg	L	R	Lu
2 2 N	4 4 N	6 - N	8 - N	10 3 3 N	12 - N	14 - N	16 - N	18 - N	20 - N	22 - N

a215 - N	a235 - N	a255 - N	a275 - N	a295 - N	a315 - N	a335 - N	a355 - N	a375 - N	a395 - N	a415 - N	a435 - N	a455 - N	a475 - N	a495 - N
Lu	Cg	Lu	R	O	Lu	L	R	R	O	Lu	L	Cg	R	P
22 - N	24 - N	26 - N	28 - N	30 - N	32 - N	34 - N	36 - N	38 - N	40 - N	42 - N	44 - N	46 - N	48 - N	50 - N

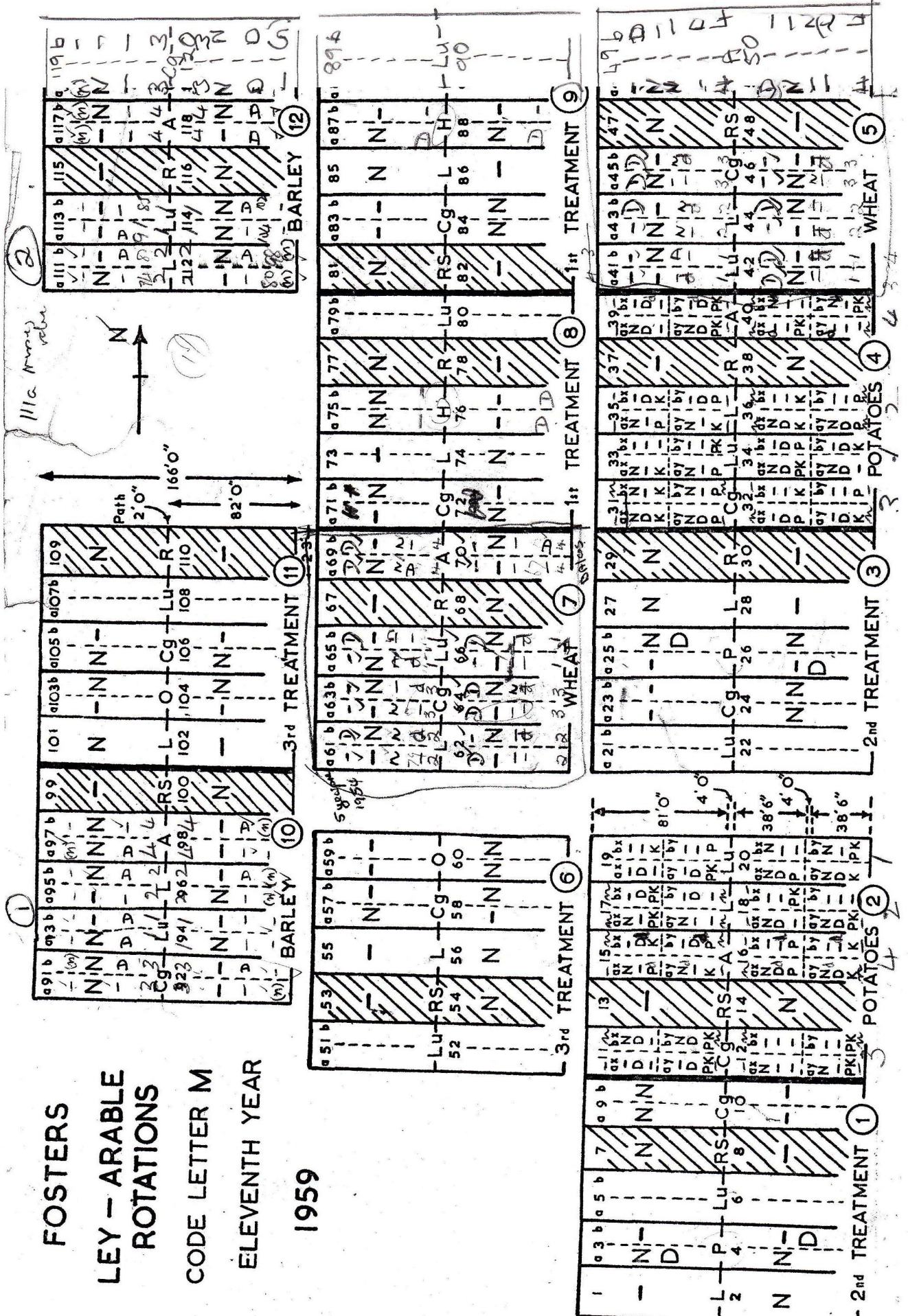


23'0" 2'0" Cross path 82'0" 81'0" 4'0" 38'6" 4'0" 38'6"

7 FEB 1957

**FOSTERS
LEY - ARABLE
ROTATIONS
CODE LETTER M
ELEVENTH YEAR**

1959



61 Rot Rep. N
n = N 15 Wheat 1962

Rothamsted:

LEY ARABLE ROTATION

Code letter: FLA

15th Year: 1963

FOSTERS

Symbols:

- LEYS
- Cg Cut grass } 3rd year
- L Grazed
- L Clover grass without N
- Lc Straight grass with N
- Lucerne for hay

All Leys mown except 'L'

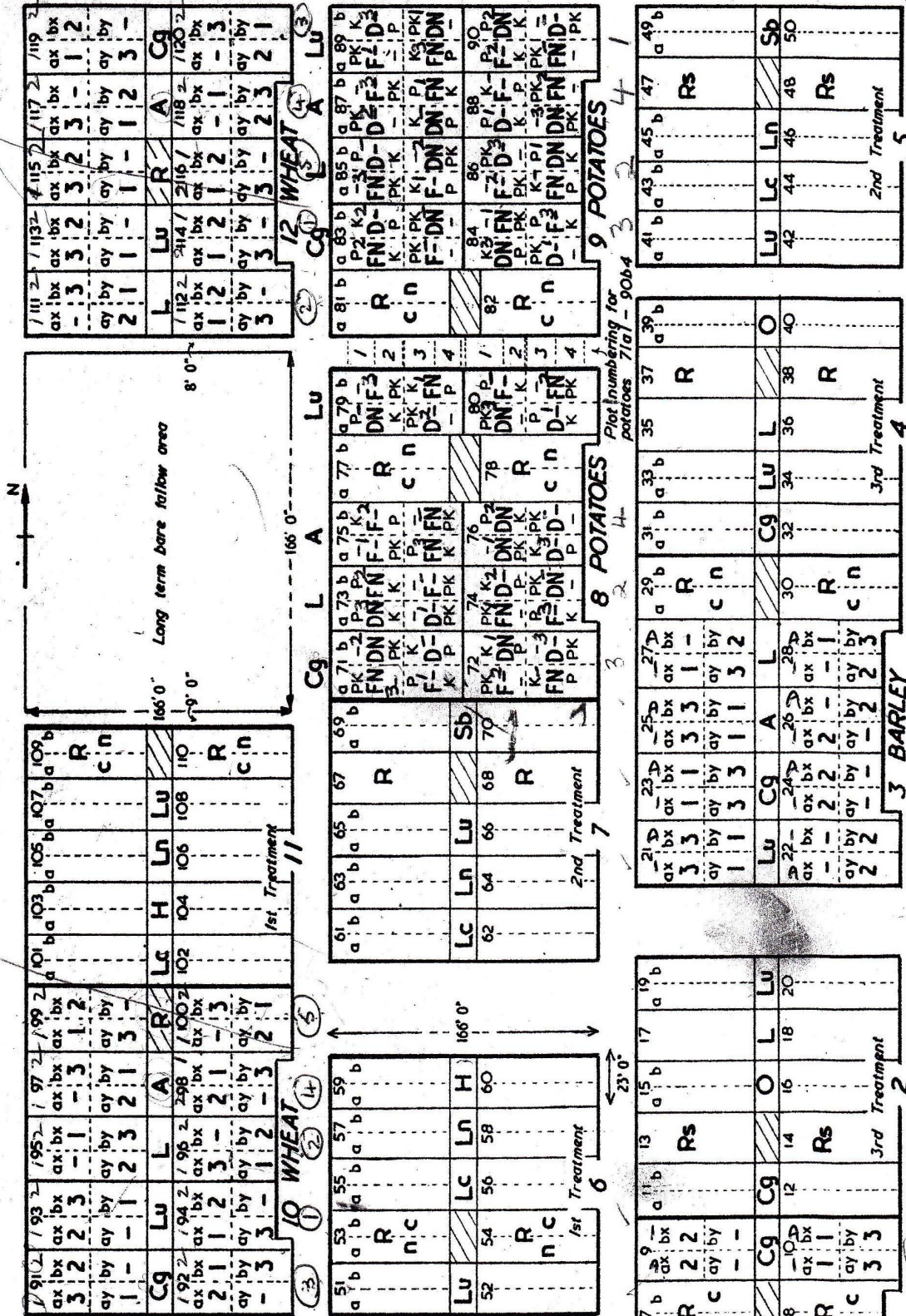
ARABLE Rotation
H Hay Sb Sugar-beet
O Oats

Reseeded grass ploughed up.

T. CROPS
WHEAT P POTATOES
BARLEY

seeded and Old Permanent Grass

& G Grazed
Slage cut in May
c & Gc No N } Mown
& Gn With N }



Handwritten notes and annotations on the right side of the diagram, including circled numbers 1-5, 'Block 1', 'Block 2', '3 311 3310', and 'sc 1 2/18'.

Rothamsted

LEY - ARABLE ROTATION

Code letter FLA

16th. Year 1964.

FOSTERS

SYMBOLS

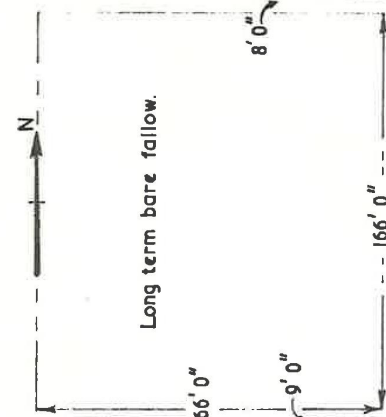
- Rotations. All 3yr. leys cut.
- Lc Grass/clover-NoN.(L) 4
- Ln Grass-with N. (Cg)
- Lu Lucerne.
- A Arable: H Hay.
- Sb Sugarbeet.
- O Oats.
- L Previously Grazed ley.
- Cg Previously Cut grass.

10 POTATOES

Plot numbering for potatoes IIIa1 - 120 b 4

a 91 b	a 93 b	a 95 b	a 97 b	a 99 b
PK P	PK P	PK P	PK P	PK P
F ₃ D	F ₃ D	F ₃ D	F ₃ D	F ₃ D
K	K	K	K	K
PK	PK	PK	PK	PK
FN	FN	FN	FN	FN
DN	DN	DN	DN	DN
PK	PK	PK	PK	PK
100	98	96	94	92
PK P	PK P	PK P	PK P	PK P
F ₃ D	F ₃ D	F ₃ D	F ₃ D	F ₃ D
PK	PK	PK	PK	PK
FN	FN	FN	FN	FN
DN	DN	DN	DN	DN
PK	PK	PK	PK	PK

101	a 103b	105	107	a 109b
Lc	Sb	Ln	Lu	R
102	104	106	108	110
2nd Treatment.	2nd Treatment.	2nd Treatment.	2nd Treatment.	2nd Treatment.



12 POTATOES

a 111 b	a 113 b	a 115 b	a 117 b	a 119 b
PK P	PK P	PK P	PK P	PK P
F ₃ D	F ₃ D	F ₃ D	F ₃ D	F ₃ D
K	K	K	K	K
PK	PK	PK	PK	PK
FN	FN	FN	FN	FN
DN	DN	DN	DN	DN
PK	PK	PK	PK	PK
120	118	116	114	112
PK P	PK P	PK P	PK P	PK P
F ₃ D	F ₃ D	F ₃ D	F ₃ D	F ₃ D
PK	PK	PK	PK	PK
FN	FN	FN	FN	FN
DN	DN	DN	DN	DN
PK	PK	PK	PK	PK

TEST CROPS:

- P Potatoes.
- W W. Wheat.
- B Barley.
- Reseeded & Old Permanent Grass.
- R & G Grazed.
- s Cut for silage in May.
- Rc, Gc Without N } Cut
- Rn, Gn With N }
- Note: From Autumn 1964 R is ploughed up as each block comes into Test Crop Wheat.

6

51	a 53 b	55	57	a 59 b
Lu	Lc	Ln	Sb	
52	54	56	58	60
2nd Treatment	2nd Treatment	2nd Treatment	2nd Treatment	2nd Treatment

7

61	63	65	67	69
Lc	Ln	Lu	O	Rs
62	64	66	68	70
3rd Treatment	3rd Treatment	3rd Treatment	3rd Treatment	3rd Treatment

8 BARLEY

71	a 73	75	77 b	79
ax	bx	ax	bx	ax
3	-	3	-	3
ay	by	ay	by	ay
1	2	1	2	1
Cg	L	A		Lu
72	74	76	78	80
ax	bx	ax	bx	ax
2	3	1	2	1
ay	by	ay	by	ay
-	1	2	3	3

9 BARLEY

a 81 b	83	85	87	89
ax	bx	ax	bx	ax
1	3	1	2	2
ay	by	ay	by	ay
3	1	3	2	-
Cg	L	A		Lu
82	84	86	88	90
ax	bx	ax	bx	ax
2	2	-	3	1
ay	by	ay	by	ay
-	-	2	1	3

2 WHEAT

1	3	5	a 7 b	9
Lc	H	Lu	Ln	
2	4	6	8	10
1st Treatment	1st Treatment	1st Treatment	1st Treatment	1st Treatment

3

21	23	25	27	a 29 b
Lu	Ln	H	Lc	R
22	24	26	28	30
1st Treatment	1st Treatment	1st Treatment	1st Treatment	1st Treatment

4 WHEAT

31	33	35	37	39
ax	bx	ax	bx	ax
1	-	3	-	1
ay	by	ay	by	ay
3	2	1	2	3
Cg	Lu	L	R	A
32	34	36	38	40
ax	bx	ax	bx	ax
2	3	1	2	3
ay	by	ay	by	ay
-	1	3	-	1

5

41	43	45	47	49
Lu	Lc	Ln	R	
42	44	46	48	50
3rd Treatment	3rd Treatment	3rd Treatment	3rd Treatment	3rd Treatment

Rothamsted LEY - ARABLE 17th Year F.L.A FOSTERS 1965 10

SYMBOLS

TREATMENT CROPS

3 year Leys 1962 - Cut.

Lc Grass/clover - No N.

Lr Grass with N.

Lul Lucerne

3 year Leys 1949 - 64

L Grazed ley

Cg Cut grass

3 years Arable "A"

H Hay Sb Sugar beet

O Oats

R Long-term Reseeded grass

TEST CROPS

W WHEAT

P POTATOES

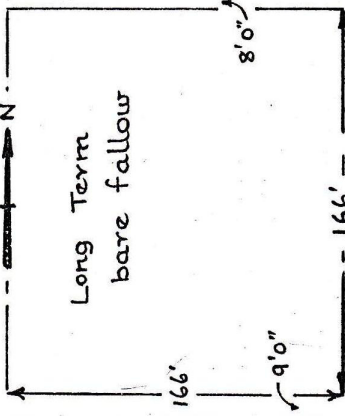
B BARLEY

Old Permanent Grass

& Reseeded Grass

Gc, Rc Without N } cut

Gr, Rn With N }



101	103	105	107	109
Lc	O	Lr	Lul	A
102	104	106	108	110
3rd Treatment				

91	93	95	97	99
Cg	Ll	L	A	R
92	94	96	98	100
3rd Treatment				

111	113	115	117	119
L	Lul	R	A	Cg
112	114	116	118	120
12 BARLEY				

51	53	55	57	59
Ll	Lc	Lr	O	
52	54	56	58	60
3rd Treatment				

61	63	65	67	69
Lc	Lr	Lul	R	A
62	64	66	68	70
7 WHEAT				

71	73	75	77	79
Lr	Lc	H	H	Lul
72	74	76	78	80
8				

81	83	85	87	89
Lr	Lc	H	H	Lul
82	84	86	88	90
9				

21	23	25	27	29
Ll	Lr	Sb	Lc	
22	24	26	28	30
2nd Treatment				

31	33	35	37	39
Cg	Ll	L	R	A
32	34	36	38	40
4 POTATOES				

41	43	45	47	49
Ll	Lc	Lr	R	A
42	44	46	48	50
5 WHEAT				

1	3	5	7	9
Lc	Sb	Ll	Lr	
2	4	6	8	10
2nd Treatment				

11	13	15	17	19
Cg	R	A	L	Lul
12	14	16	18	20
2 POTATOES				

11	13	15	17	19
Ll	Lc	Lr	O	
12	14	16	18	20
3rd Treatment				

21	23	25	27	29
Ll	Lr	Sb	Lc	
22	24	26	28	30
2nd Treatment				

31	33	35	37	39
Cg	Ll	L	R	A
32	34	36	38	40
4 POTATOES				

41	43	45	47	49
Ll	Lc	Lr	R	A
42	44	46	48	50
5 WHEAT				

51	53	55	57	59
Ll	Lc	Lr	O	
52	54	56	58	60
3rd Treatment				

61	63	65	67	69
Lc	Lr	Lul	R	A
62	64	66	68	70
7 WHEAT				

71	73	75	77	79
Lr	Lc	H	H	Lul
72	74	76	78	80
8				

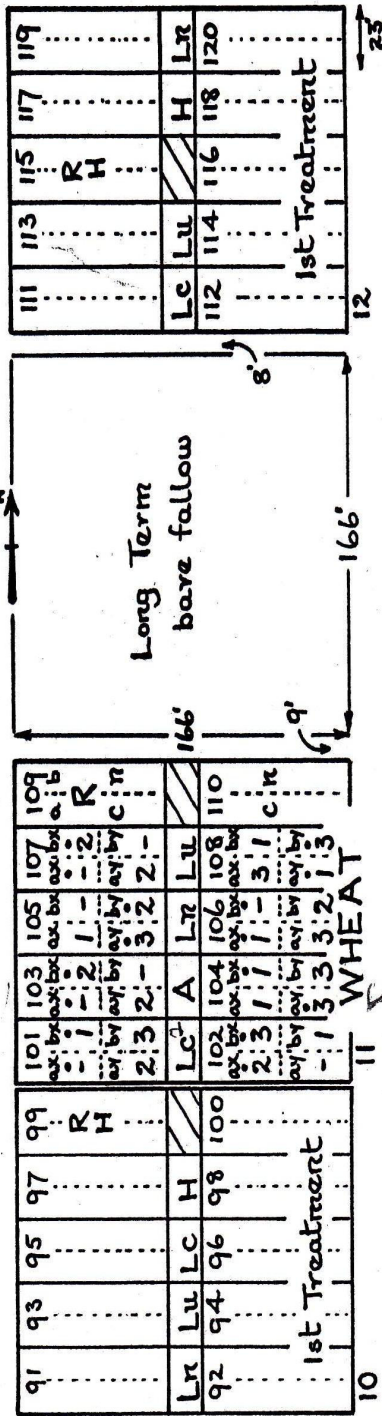
Rothamsted LEY-ARABLE

18th Year

FLA

FOSTERS

1966



SYMBOLS
TREATMENT CROPS
 3 year Leys 1962 - cut.
 Lc Grass/clover - No N.
 Ln Grass With N.
 Lu Lucerne
 3 year Leys 1949-64
 L Grazed ley
 Cg Cut grass
 3 years Arable "A"
 H Hay Sb Sugarbeet
 O oats

R Long-term
 Reseeded grass
TEST CROPS
 W WHEAT
 P POTATOES
 B BARLEY
 Old Permanent Grass
 & Reseeded Grass
 Gc, Rc Without N } cut
 Gr, Rn With N }

111	113	115	117	119
		R H		
Lc	Lu		H	Lr
112	114	116	118	120
1st Treatment				

101	103	105	107	109
				R
Lc	A	Lr	Lu	
102	104	106	108	110
				Cr
WHEAT				

91	93	95	97	99
				R H
Ln	Lu	Lc	H	
92	94	96	98	100
1st Treatment				

61	63	65	67	69
				D D D D
Lc	Ln	Lu	R	A
62	64	66	68	70
				F F F F
POTATOES				

71	73	75	77	79
				R
Ln	Lc	Sb		Lu
72	74	76	78	80
				Cr
2nd Treatment				

81	83	85	87	89
Ln	Lc	Sb		Lu
82	84	86	88	90
2nd Treatment				

21	23	25	27	29
				R
Lu	Ln	O	Lc	
22	24	26	28	30
				Cr
3rd Treatment				

31	33	35	37	39
Cg	Lu	L	R	A
32	34	36	38	40
BARLEY				

41	43	45	47	49
Lu	Lc	Ln	R	A
42	44	46	48	50
5 POTATOES				

51	53	55	57	59
Lu	Lc	Ln	LA	
52	54	56	58	60
WHEAT				

61	63	65	67	69
Lc	Ln	Lu	R	A
62	64	66	68	70
POTATOES				

71	73	75	77	79
Ln	Lc	Sb		Lu
72	74	76	78	80
2nd Treatment				

1	3	5	7	9
Lc	Lu			Ln
2	4	6	8	10
3rd Treatment				

11	13	15	17	19
Cg	R	A	L	Lu
12	14	16	18	20
BARLEY				

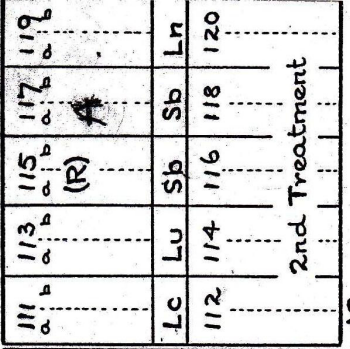
21	23	25	27	29
Lu	Ln	O	Lc	
22	24	26	28	30
3rd Treatment				

31	33	35	37	39
Cg	Lu	L	R	A
32	34	36	38	40
BARLEY				

41	43	45	47	49
Lu	Lc	Ln	R	A
42	44	46	48	50
5 POTATOES				

51	53	55	57	59
Lc	Ln	Lu	R	A
52	54	56	58	60
WHEAT				

Rothamsted LEY-ARABLE 19th Year
 FOSTERS 1967
 FLA
 N 1966
 12
 119
 117
 115
 113
 111



111	a	b	113	a	b	115	a	b	117	a	b	119	a	b
2nd Treatment														
Lc	Lu	Sb	Lu	Sb	Sb	Lu	Sb	Sb	Lu	Sb	Sb	Lu	Sb	Lu

101	a	b	103	a	b	105	a	b	107	a	b	109	a	b
2nd Treatment														
Lc	Lu	Sb	Lc	Lu	Sb	Lc	Lu	Sb	Lc	Lu	Sb	Lc	Lu	Sb

91	a	b	93	a	b	95	a	b	97	a	b	99	a	b
2nd Treatment														
Ln	Lu	Lc	Lu	Lc	Sb	Lu	Lc	Sb	Lu	Lc	Sb	Lu	Lc	Sb

51	a	b	53	a	b	55	a	b	57	a	b	59	a	b
2nd Treatment														
Lu	Lu	Lc	Lu	Lc	Ln	Lu	Lc	Ln	Lu	Lc	Ln	Lu	Lc	Ln

71	a	b	73	a	b	75	a	b	77	a	b	79	a	b
3rd Treatment														
Ln	Lc	O	Ln	Lc	O	Ln	Lc	O	Lu	Lc	O	Lu	Lc	O

61	a	b	63	a	b	65	a	b	67	a	b	69	a	b
3rd Treatment														
Lc	Lu	Ln	Lc	Lu	Ln	Lc	Lu	Ln	Lc	Lu	Ln	Lc	Lu	Ln

41	a	b	43	a	b	45	a	b	47	a	b	49	a	b
3rd Treatment														
Lu	Lc	Ln	Lu	Lc	Ln	Lu	Lc	Ln	Lu	Lc	Ln	Lu	Lc	Ln

21	a	b	23	a	b	25	a	b	27	a	b	29	a	b
3rd Treatment														
Lu	Ln	A	Lu	Ln	A	Lu	Ln	A	Lu	Ln	A	Lu	Ln	A

11	a	b	13	a	b	15	a	b	17	a	b	19	a	b
1st Treatment														
Ln	H	H	Ln	H	H	Ln	H	H	Ln	H	H	Ln	H	H

31	a	b	33	a	b	35	a	b	37	a	b	39	a	b
1st Treatment														
Ln	Lu	Lc	Ln	Lu	Lc	Ln	Lu	Lc	H	H	H	H	H	H

21	a	b	23	a	b	25	a	b	27	a	b	29	a	b
1st Treatment														
Lu	Ln	A	Lu	Ln	A	Lu	Ln	A	Lc	Lc	Lc	Lc	Lc	Lc

1	a	b	3	a	b	5	a	b	7	a	b	9	a	b
1st Treatment														
Lc	A	Lu	Lc	A	Lu	Lc	A	Lu	Lc	A	Lu	Lc	A	Lu

1	a	b	3	a	b	5	a	b	7	a	b	9	a	b
1st Treatment														
Lc	A	Lu	Lc	A	Lu	Lc	A	Lu	Lc	A	Lu	Lc	A	Lu

1	a	b	3	a	b	5	a	b	7	a	b	9	a	b
1st Treatment														
Lc	A	Lu	Lc	A	Lu	Lc	A	Lu	Lc	A	Lu	Lc	A	Lu

SYMBOLS
 Treatment Crops.
 3 year Leys. Cut:

- Lc Grass/Clver, No N
- Ln Grass with N
- Lu Lucerne

3 years Arable 'A' (R)
 H Hay Sb Sugarbeet
 O Oats

(R) Long-term reseeded grass. Ploughed up for TEST crops.

TEST CROPS

- W Wheat
- P Potatoes
- B Barley

Old Permanent & Reseeded Grass. Cut:

- Ge, Rc No N
- Gn, Rn with N

Rothamsted LEY-ARABLE 20th. Year FLA FOSTERS 1968 12

SYMBOLS

Treatment Crops
3 year Leys, cut:

Lc Grass/clover, No N.
Ln Grass with N
Lu Lucerne.

3 years Arable A'(R)(G)
H Hay Sb Sugarbeet
O Oats

(G),(R) Permanent & Long-term reseeded grass ploughed up for TEST crops.

TEST CROPS

Sequence 1949 - 1969
(W) P B W*
(W* 1968 only)

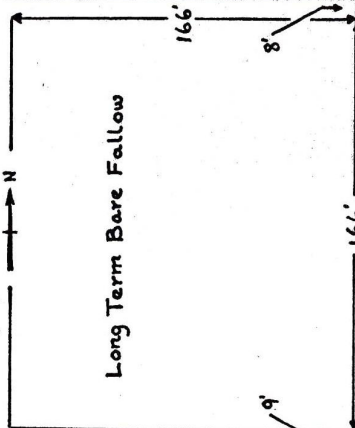
Sequence 1968 -

P* W B
W Wheat, P Potatoes
B Barley

Old Permanent (Highfield) & Reseeded Grass, cut:

Gc, Rc No nitrogen
Gr, Rn With nitrogen.

91/b	93	95	97	99	101	103	105	107	109
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Ln	Lu	Lc	O	O	Lc	A	Ln	Lu	R
92	94	96	98	100	102	104	106	108	110
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Ln	Lu	Lc	O	O	Lc	A	Ln	Lu	R



a/11/b	113	115	117	119
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3
Ln	Lu	O	O	Ln
112	114	116	118	120
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3
Ln	Lu	Lc	Ln	Lu

71/b	73/b	75/b	77/b	79/b	81/b	83/b	85/b	87/b	89/b
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Ln	Lc	AH	(R)	Lu	(R)	Ln	Lc	AH	Lu
72/b	74/b	76/b	78/b	80/b	82/b	84/b	86/b	88/b	90/b
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Ln	Lc	AH	(R)	Lu	(R)	Ln	Lc	AH	Lu

61	63	65	67	69	70
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3	2/3
Lc	Ln	Lu	(R)	A	WHEAT
62	64	66	68	70	71
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3	2/3
Lc	Ln	Lu	(R)	A	WHEAT

51	53	55	57	59	60
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3	2/3
Lu	Lc	Lc	Lc	AH	BARLEY
52	54	56	58	60	61
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3	2/3
Lu	Lc	Lc	Lc	AH	BARLEY

41	43	45	47	49
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3
Lu	Lc	Ln	(R)	A
42	44	46	48	50
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3
Lu	Lc	Ln	(R)	A

21/b	23	25	27	29
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3
Lu	Ln	A	Lc	Sb
22	24	26	28	30
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3
Lu	Ln	A	Lc	Sb

11/b	13	15	17	19
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3
Ln	Sb	Lc	Lu	Lu
12	14	16	18	20
ax/bx	ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3	2/3
Ln	Sb	Lc	Lu	Lu

3	5	7	9
ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3
Ln	Ln	Ln	Ln
4	6	8	10
ax/bx	ax/bx	ax/bx	ax/bx
2/3	2/3	2/3	2/3
Ln	Ln	Ln	Ln