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ROTHAMSTED  
RESEARCH

# Collection of Plans for the Woburn Ley-arable Experiment

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## Default Title

### Rothamsted Research

Rothamsted Research (1957-79) *Default Title* ; Collection Of Plans For The Woburn Ley-Arable Experiment, pp 1 - 42

# WOBURN Arable and Ley Rotation STACKYARD FIELD 20th. year, 1957

Code letter G

- 4 MAR 1957

## TREATMENT SYMBOLS

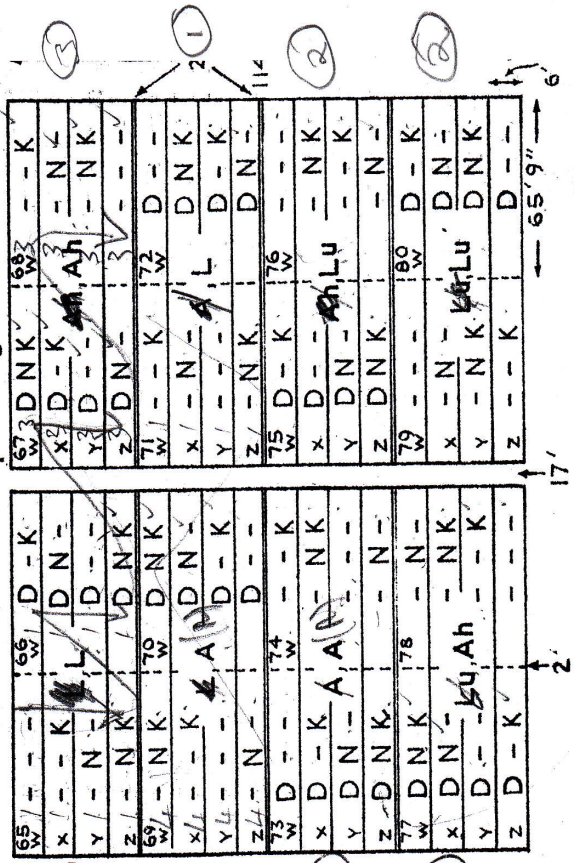
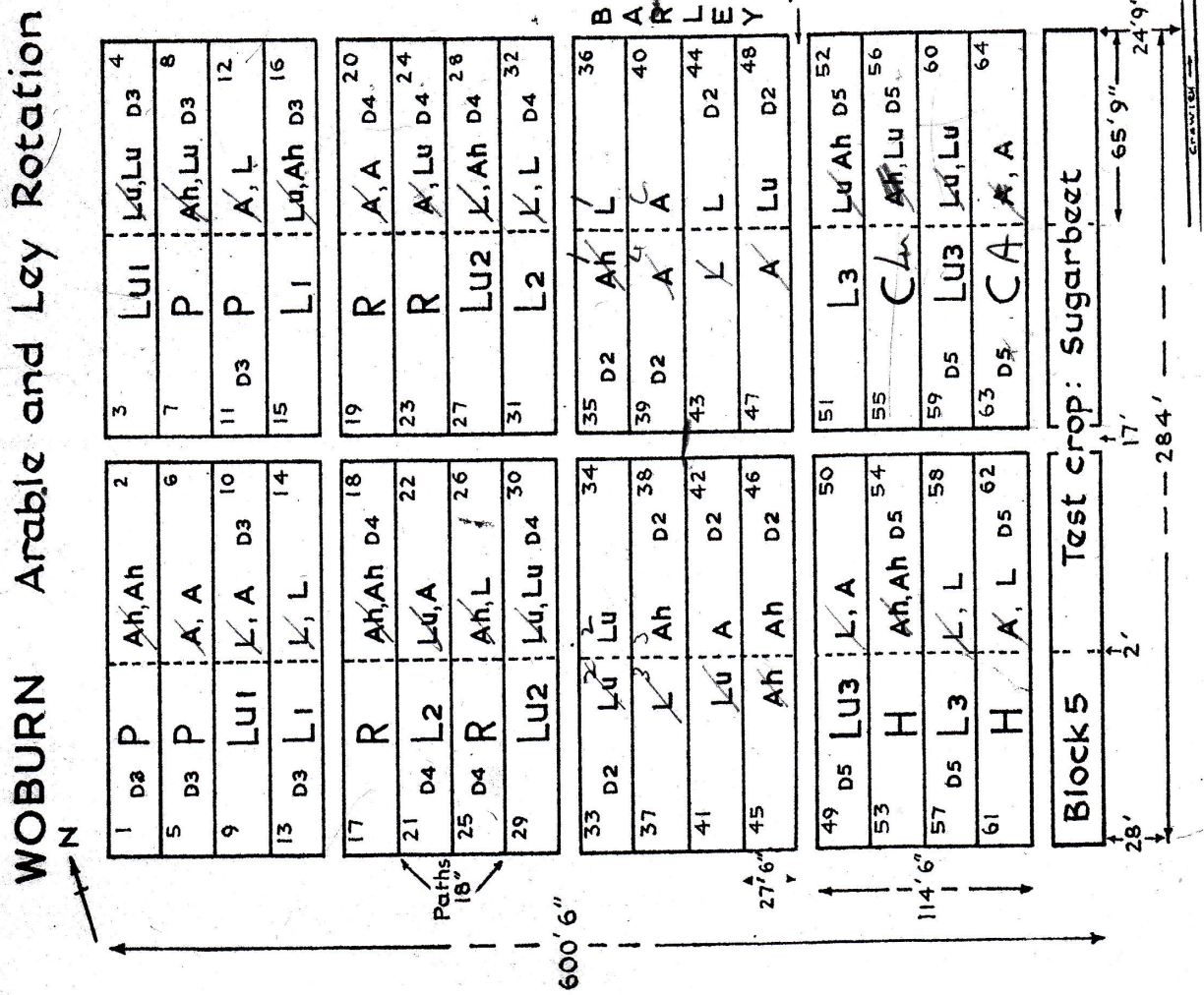
Rotation	Crops
A	Potatoes, Rye, Carrots
Ah	Potatoes, Rye (undersown) Hay (2 cuts)
Lu	Lucerne cut for hay for 3 years
L	Ley grazed for 3 years

Lu, A etc. indicate last two rotations (in order)

## Test crops Sugarbeet, barley

D - Dung at 15 t.p.a. or etc. residual in 2nd. etc crop  
 N - 0.72 cwt. N p.a. as Nitrochalk } in addition to basal  
 K - 0.9 cwt. K<sub>2</sub>O p.a. as muriate }

## Block 5 Test crop: Sugarbeet



Barley. Some plots earled later than others.



# Woburn Arable and Ley Rotation

# STACKYARD 21st year 1958

## TREATMENT SYMBOLS

Rotation	Crops
A	Potatoes, Rye, Carrots
Ah	Potatoes, Rye (undersown) Hay (2 cuts)
Lu	Lucerne cut for hay for 3 years
L	Ley grazed for 3 years

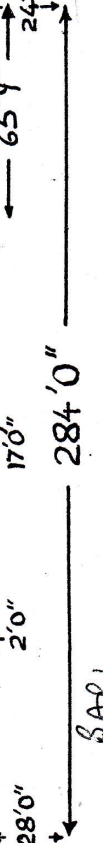
Lu, A etc. indicate last two rotations (in order)  
 Test Crops Sugar beet, barley  
 D Dung at 15 t.p.a. D2, etc. residual in 2nd.e  
 N 0.72 cwt N p.a as Nitro-Chalk } in additio  
 K 0.9 cwt K<sub>2</sub>O p.a as muriate } basal man

1 → N

1 D4	R	Ah, Ah	2
5 D4	R	A A	6
9	Lu2	L, A D4	10
13 D4	L2	L, L	14
17	H	Ah, Ah D5	18
21 D5	L3	Lu, A	22
25 D5	C	L, Ah, L C	26
29	Lu3	Lu, Lu D5	30
33 D3	P	Ah, L	36
37	P	A, A	40
41	L1	L, L D3	44
45	P	A, Lu D3	48

49 DN	50	- NK
X DNK	Lu	- K
Y D	-	- N
Z D-K	-	-
53 - NK	54 W	D-K
X - K	Ah	D
Y -	Ah	DNK
Z - N	-	D N
57 DNK	58 W	- K
X D	L	- NK
Y D-K	-	- NK
Z D N	-	- N
61 - NK	62 W	D
X -	L, Ah	DNK
Y - K	-	DN
Z - N	-	D-K

65	L	L	L	D2	66
69	L	A	L	D2	70
73 D2	A	A	L	4	74
77 D2	Lu	Lu	Ah	3	78

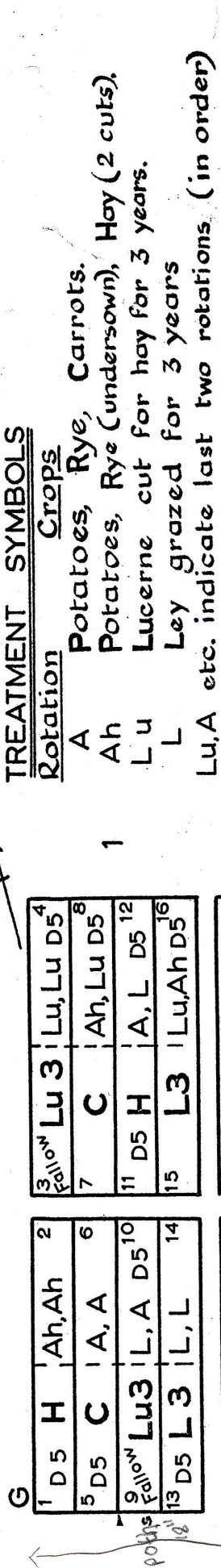


## Block 4 Test crop SUGAR BEET

59 W	- N	- 52 DNK
X - NK	Ah	D
Y -	-	D-K
Z - K	-	D N
55 W	- K	56 W DNK
X - N	A	D N
Y - NK	A	D-K
Z -	-	D
59 W	D-K	60 W - K
X DN	Lu	- NK
Y D	-	- NK
Z DNK	-	- N
63 W	D	64 W - K
X DN	A	- N
Y D-K	-	- NK
Z DNK	-	- NK



WOBURN Arable and Ley Rotations Code letter G STACKYARD FIELD 22nd year 1959



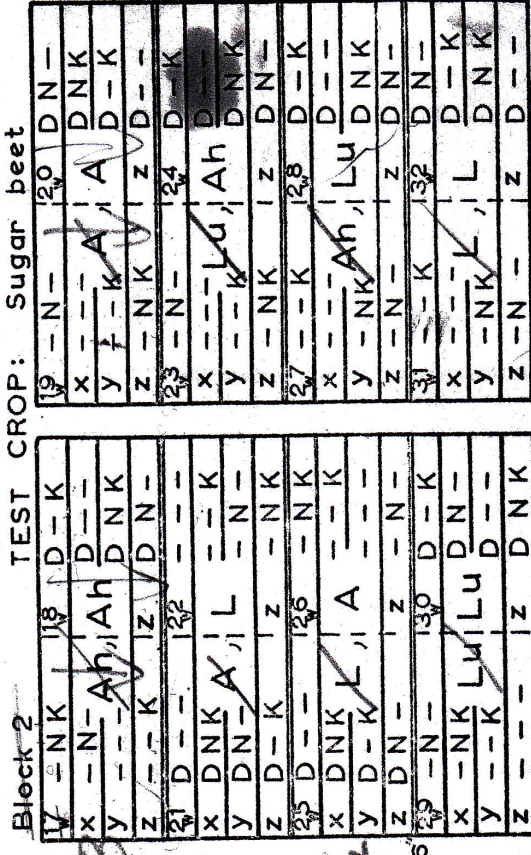
TREATMENT SYMBOLS

Rotation Crops

- A Potatoes, Rye, Carrots.
- Ah Potatoes, Rye (undersown), Hay (2 cuts).
- Lu Lucerne cut for hay for 3 years.
- L Ley grazed for 3 years
- Lu,A etc. indicate last two rotations (in order)

TEST CROPS: Sugar beet barley

- D Dung at 15 t.p.a. D2 etc. residual in 2nd. etc. crop
- N 0.72 cwt N p.a as 'Nitro-Chalk' } in addition to
- K 0.9 cwt K<sub>2</sub>O p.a as muriate of potash } basal NPK



1	D5	H	Ah,Ah	2	Lu,Lu	D5	4
5	D5	C	A,A	6	Ah,Lu	D5	8
9	D5	Lu3	L,A D5	10	A,L	D5	12
13	D5	L3	L,L	14	Lu,Ah	D5	16

17	Block 2	TEST	32	
33	D4	Lu2	Lu,Lu	34
37	Lu2	L,Ah	D4	38
41	L2	Lu,A	D4	42
45	R	Ah,Ah	D4	46

49	D2	A	Lu	50
53	Ah	Ah	D2	54
57	D2	L	L	58
61	L	Ah	D2	62

65	L1	L,L	D3	66
69	Lu1	L,A	D3	70
73	D3	P	A,A	74
77	D3	L1	Lu,Ah	78

35	D4	R	Ah,L	36
39	D4	R	A,A	40
43	L2	L,L	D4	44
47	R	A,A	LuD4	48

51	Ah	L	D2	52
55	Lu	A	D2	56
59	D2	Lu	Lu	60
63	D2	A	A	64

67	D3	P	Ah,Ah	68
71	P	A,L	D3	72
75	D3	P	Ah,Lu	76
79	Lu1	Lu,Lu	D3	80



WOBURN Available and Ley Rotations Code letter G STACKYARD FIELD 23rd year 1960

Ag 1  
Lu 2  
AH 3

TREATMENT SYMBOLS

Rotation

- A Potatoes, Rye, Carrots
- Ah Potatoes, Rye (Johnson) Hay (2 cuts)
- Lu Lucerne cut for hay for 3 years
- L Ley grazed for 3 years

Lu, A etc indicate last 2 rotations in order.  
 AH followed by test crops Sugar beet, barley  
 D during 15 ton/ha, DZ etc residual in 2nd etc crop  
 N, K: 0.72 wt N, 0.9 wt K<sub>2</sub>O in addition to basal

Block	TEST CROP	Sugar beat
1	AK/Ah 3 DZ	16
3	Ah 1	19
21	Ah 1	23
25	Ah 1	27
29	Ku, Lu 2 DZ	31
33	Lu 3 Lu, Lu	35
37	Lu 3 Lu, Ah D5	39
41	Lu 3 Lu, A D5	43
45	H Ah, Ah, D5	47
49	P A, Lu	51
53	P Ah, Ah, D3	55
57	Li Li, Li	59
61	Lu Li, Ah, D3	65
65	L2 Li, Li, D4	69
69	Lu 2 Li, A D4	71
73	R A, A	75
77	L2 Li, Ah	79

TEST CROP

Block	TEST CROP	Sugar Beet
1	D-K	14
2	DN-Ah	18
3	DNK-Ah	22
4	D-K	26
5	D-K	30
6	DNK-Ah	34
7	D-K	38
8	DNK-Ah	42
9	D-K	46
10	DNK-Ah	50
11	D-K	54
12	DNK-Ah	58
13	D-K	62
14	DNK-Ah	66
15	D-K	70
16	DNK-Ah	74
17	D-K	78
18	DNK-Ah	82

2 Reps of A rotation 56x10  
 56x10 = 5600



WOBURN Anable and Ley Rotations. Code letter G. STACKYARD FIELD 21<sup>st</sup> year 1961

TREATMENT SYMBOLS

Rotations:

Contra.

(R) Barley  
 Potatoes: Ryx (2 cuts)  
 Potatoes: Ry2 (1/season) May (2 cuts)  
 Lucerne cut for hay for 3 years.  
 Ley grazed for 3 years.

Lu, A etc. indicate that 2 rotations in order.  
 All followed by test crops Sugar beet, Barley.  
 D being 15 tons for, D 2 etc. residual in 2nd block crop.  
 2 N, K: 0.72 cut N, 0.9 cut K in addition to basal

3	Lu	Lu	D2
7	Lu	A	D2
11	D2	L	AL
15	AL	L	D2

2	AK	AK	
6	A	A	
10	A	Lu	D2
14	L	L	

19	P	A	A	D3	20
23	L1	Lu	AL	D3	24
27	P	AL	Lu	D3	28
31	L1	L	L	D3	32

17	P	AK	AL	D3	18
21	P	A	L		
25	L1	L	A		
29	L1	Lu	Lu	D3	30

Block 3 TEST CROP Sugar Beet

49	D4	R	AL	L	D4	52
53	R	AL	AL	D4	56	
57	D4	L2	L	Lu	Lu	60
61	D4	R	A	A	64	

50	R	AL	L	
54	R	AL	AL	D4
58	L2	L	L	
62	L2	L	AL	D4

51	R	AL	L	D4	52
55	L2	Lu	A	D4	56
59	D4	Lu	Lu	Lu	60
63	D4	R	A	A	64

65	D5	H	AL	AL	68	
69	H	A	L	D5	72	
73	D5	C	AL	Lu	76	
77	D5	L3	Lu	Lu	D5	80

65	L3	L	L	D5	66
69	Lu3	L	A	D5	70
73	D5	C	A	A	74
77	D5	L3	Lu	AL	78

Block 3 TEST CROP Sugar Beet

35	D--	184	-	NK
39	DK	184	L	---
43	DN	184	Lu	---
47	DNK	184	Lu	---
51	---	184	---	---
55	---	184	---	---
59	---	184	---	---
63	---	184	---	---
67	---	184	---	---
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767	---	184	---	---
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787	---	184	---	---
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827	---	184	---	---
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987	---	184	---	---
991	---	184	---	---
995	---	184	---	---
999	---	184	---	---

1960 Plot (35,36) and (47,48) cropping rotated in 1961. (A) to be included in planning.







45

# WOBURN Arable and Ley Rotations

# STACKYARD 26th year 1963

## TREATMENT CROPS

- Potatoes (P)
- Rye (R)
- Carrots (C)
- Potatoes (P)
- Rye (R)
- Hay (H)
- Lucerne cut for hay
- Ley grazed.

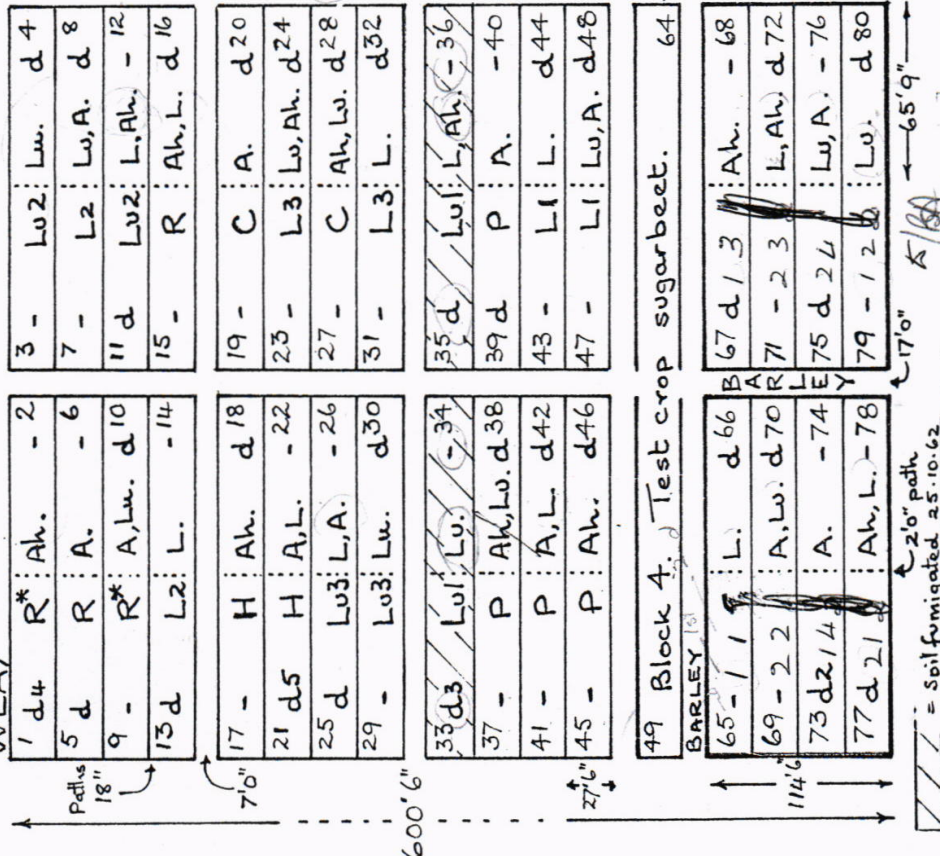
## SYMBOLS

- Rotations: 3 years Arable
- 3 years Ley
- Test Crops: SUGAR BEET, BARLEY. (In 4th and 5th year)

TREATMENTS TO SUGAR BEET

- D FYM at 15 tons per acre [d = FYM residuals]
- N 0.72 cut N per acre as 'Nitro-Chalk 21
- K 0.9 cut K<sub>2</sub> per acre as muriate of potash.
- Mg 500lb Magnesium sulphate per acre.

## BLOCK 4 TEST CROP SUGAR BEET



Plot	Treatment	Soil	Path
51	Mg - N - 52	DNK	Mg
X	- NK Mg -	D-K	Mg
Y	- - Mg Mg D - -	D - -	-
Z	Mg - - K - -	DN -	Mg
55	Mg - - - - 56	D - K	-
X	- N - Mg Mg DN -	DN -	-
Y	Mg - NK - Mg D - -	D - -	-
Z	Mg - - K - -	DNK	Mg
59	Mg D - K - 60	- - -	-
X	Mg DN - - -	- NK	Mg
Y	- DNK Mg - -	- N -	Mg
Z	Mg D - - - 64	- - K	Mg
63	- DNK Mg - 64	- N -	Mg
X	Mg D - - - Mg - NK -	- NK	-
Y	- D - K Mg - -	- -	-
Z	Mg - - - Mg -	DNK	Mg
57	D - - Mg - 58	- - -	Mg
X	D - K Mg Mg - - K -	- -	-
Y	Mg DNK - - - N - Mg	- N -	Mg
Z	- DN - Mg Mg - NK -	- NK	-
61	Mg - - K - 62	D - -	Mg
X	- N - Mg Mg D - K -	D - K	-
Y	Mg - NK - Mg DN -	DN -	-
Z	- - - Mg -	DNK	Mg

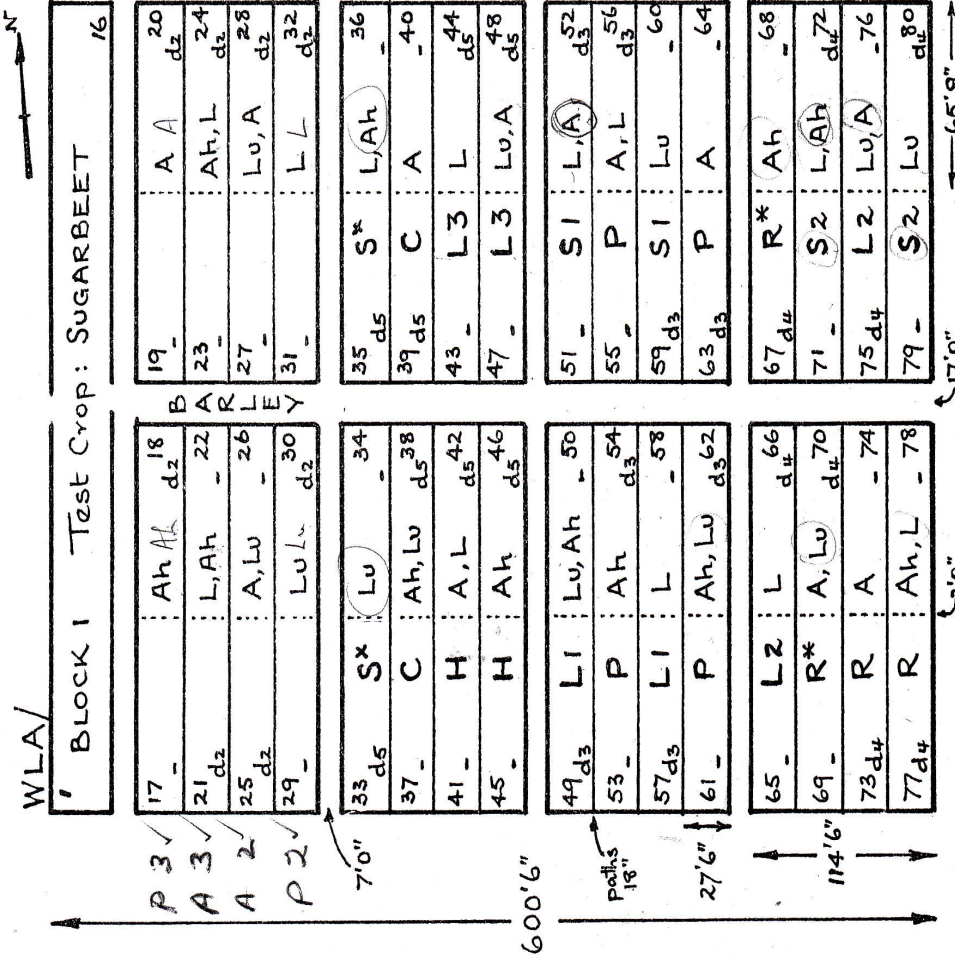






103  
STACKYARD 28th year 1965

Woburn Arable & Ley Rotations



**SYMBOLS**  
Rotations  
3 years ARABLE: A Potatoes (P) Rye (R) Carrots (C)  
Ah Potatoes (P) Rye w/s (R\*) Hay (H)  
3 years LEY : Lu Lucerne cut for hay. S Sainfoin (as Lu)  
L Ley Grazed.

**TEST CROPS:** Sugar-beet, Barley (In 4th & 5th years) per acre

**TREATMENTS TO SUGAR BEET**

- , D None, 15 tons F.Y.M (d = residuals of F.Y.M)  
To 1/8th sub-plots (Nitrogen at 4 levels, rates according to rotation)  
N 1, 2, 3, 4, 5, 6 0.35, 0.7, 1.05, 1.40, 1.75, 2.10 cut N  
as "Niko-Chalk" 21

- , K None, 0.9wt K<sub>2</sub>O as muriate of potash  
Basal manuring: per acre  
2.0 cut P<sub>2</sub>O<sub>5</sub> as superphosphate, 500lb magnesium sulphate.

**BLOCK 1 Test Crop Sugar Beet**

31 -	2 -	4 K D 1 -
2 K	3 K	4 - P 3 -
1 K	3 -	2 - P 4 K
4 K	4 -	3 K D 2 K
2 -	4 -	8 4 - P 3 K
1 K	3 -	2 - P 3 -
1 -	2 K	4 K D 2 K
4 K	3 K	1 - D 1 K
11 4 K D	2 K	12 1 K - 3 K
1 - D 2 -	2 K - 3 -	
1 K D 3 -	4 K - 4 -	
4 - D 3 K	2 - - 1 -	
15 4 K -	5 K 4 16 5 - D 3 - 2 -	
1 1/2 K -	4 - 3 1 1/2 - D 4 K 3	
4 5 -	2 - 1 3/4 - D 3 K 2	
2 3/4 -	3 K 2 1/4 5 K D 2 K 1	

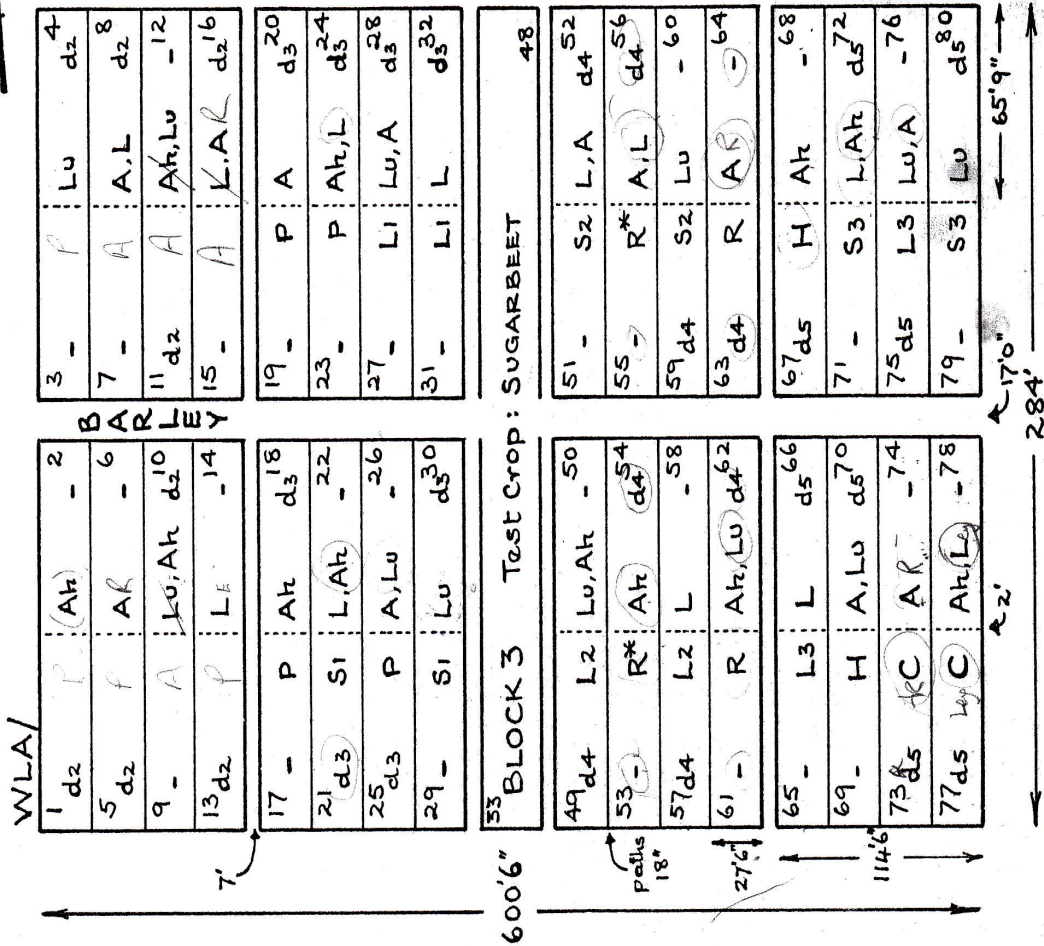
133'6" 17'0" 65'9" 284' 32'10 1/2" x 6'10 1/2" = 0.00519 acre

17'0" 65'9" 284' x Sainfoin in place of 3rd year Lucerne. Plot area: 65'9" x 27'6" = 0.0415 acre



103  
STACKYARD 29th Year 1966

Woburn Arable & Ley Rotations



SYMBOLS Rotations

3 years ARABLE A: Potatoes P, Rye R, Carrots C.  
Ah: Potatoes P, Rye's R\* Hay H.  
Lu: Lucerne cut for hay S: Sainfoin (as Lu)  
L: Ley grazed.

3 years LEY

TEST CROPS: Sugarbeet, Barley (In 4th & 5th years)

TREATMENTS to SUGARBEET per acre

- , D None, 15 tons F.Y.M. (d = Residuals of FYM)  
N to 1/8th sub-plots (N at 4 levels, rates according to rotation  
N1, 2, 3, 4, 5, 6 0.35, 0.7, 1.05, 1.40, 1.75, 2.10 cwt N as N/c/21  
- , K None, 0.9 cwt K2O as muriate of potash.  
Basal P & Mg.

BLOCK 3 Test Crop SUGARBEET

a	b	a	b	a	b
332K D	1- 342-	1K	W	351K D	3- 363K - 4-
1K D	2- 4-	3K	X	2- D	4K 3- - 1K
4- D	3K 4K -	2K	Y	2K D	4- 2- - 1-
4K D	3- 3K -	1-	Z	1- D	3K 2K - 4K
372K -	3K 383-	D 2-	W	392- D	4- 404K - 3K
3- -	4K 4K D	D 5-	X	3- D	5- 4- - 2-
5- -	5K 4- D	D 5K	Y	3K D	4K 2K - 5-
2- -	4- 2K D	D 3K	Z	5K D	2K 3- - 5K
415 - -	3K 425-	D 6-	W	433K -	4K 441- D 4K
4K -	5K 3- D	D 4K	X	2- -	2K 1K D 2K
3- -	4- 5K D	D 6K	Y	4- -	3- 2- D 3K
6K -	6- 4- D	D 3K	Z	1K -	1- 3- D 4-
453K -	4- 463-	D 5-	W	472K -	4- 482K D 3K
6- -	3- 6- D	D 4K	X	1- -	2- 2- D 1-
5- -	6K 6K D	D 5K	Y	1K -	3- 4- D 1K
5K -	4K 3K D	D 4-	Z	4K -	3K 3- D 4K

17' 65'9" 284'

133'6" 65'9" 284'

18" PAR LE 18" A, L, Ah (Lu, Lu, S)\*



WOBURN Arable & Ley Rotations

6/4 STACKYARD 30<sup>th</sup> year 1967

SYMBOLS

Rotations

3 years ARABLE

3 years LEY

Treatment Crops

A = Potatoes P, Rye R, Carrots C.

Ah = Potatoes P, Rye %R, Hay H.

S = Sainfoin cut for hay (Lu: Lucerno)

L = Ley grazed.

TEST CROPS: Sugarbeet, Barley (In 4th & 5th years)

TREATMENTS to SUGARBEET per acre

- , D None, 15 tons F.Y.M. (d = Residuals of FYM)

N to 1/4 Sub-plots (Nat 4 levels, rates according to rotation)

N 1, 2, 3, 4, 5, 6 0-35, 0-7, 1-05, 1-40, 1-75, 2-10 cwt N as "N/c" 21

Basal P, K, and Mg

Note: Spring Wheat, variety Kloka replaced failed Rye in Block 3.

WLA

BLK 1

3 -	S1	Lu	d3	4
7 -	P	A, L	d3	8
11 d3	P	Ah, Lu	-	12
15 -	S1	L, A	d3	16

2

19 -	R	A	d4	20
23 -	R	Ah, L	d4	24
27 -	L2	Lu, A	d4	28
31 -	L2	L	d4	32

3

35 d2	Ah(SA)	-	36
39 d2	A	R	40
43 -	L	Ah	44
47 -	A	L	48

4

51 -	S3	Ah	d5	52
55 -	H	A, L	d5	56
59 d5	S3	Lu	-	60
63 d5	C	A	-	64

5

SUGARBEET 80				
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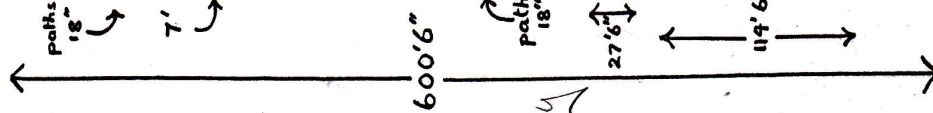
1 d3	P	Ah	-	2
5 d3	P	A	-	6
9 -	L1	Lu, Ah	d3	10
13 d3	L1	L	-	14

17 -	R	Ah	d4	18
21 d4	S2	L, Ah	-	22
25 d4	R	A, Lu	-	26
29 -	S2	Lu	d4	30

33 d2	(SA)	-	34
37 -	S, A	R	38
41 -	L, Ah	-	42
45 -	(Ah)	-	46

49 d5	L3	Lu, Ah	-	50
53 -	H	Ah	d5	54
57 d5	L3	L	-	58
61 -	C	Ah, Lu	d5	62

65 Blocks Test Crop :				
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65 -	1	66	4	2	68	5	3
-	4	2	D	D	3	1	-
-	2	1	D	D	6	4	-
-	3	3	D	D	4	2	-
69 -	3	1	70	5	3	2	D
-	4	2	6	4	D	D	D
-	6	4	3	1	D	D	D
-	5	3	4	2	D	D	D
73 D	2	1	74	3	2	-	-
D	4	3	2	1	-	-	-
D	3	2	5	4	-	-	-
D	5	4	4	3	-	-	-
77 D	4	3	78	2	1	-	-
D	5	4	3	2	-	-	-
D	2	1	5	4	-	-	-
D	3	2	4	3	-	-	-





101  
STACKYARD 31st year 1968.

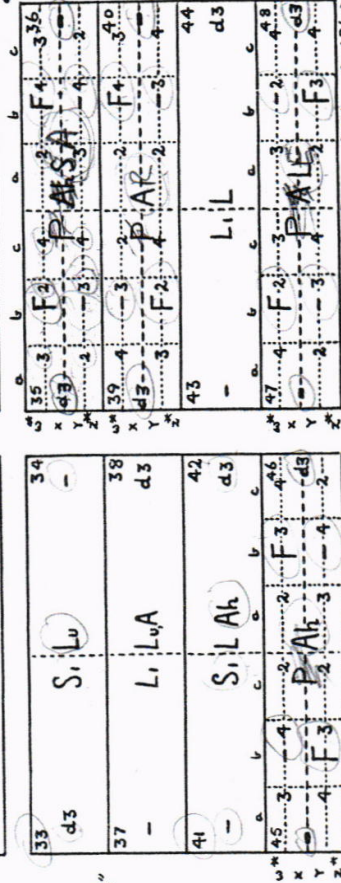
Woburn  
WLA

ARABLE & LEY ROTATIONS

1 d4	R*Ah	-2
5 d4	R:A	-6
9 d4	L2:LuAh	d4
13 d4	L2:L	-14
17 d5	H:Ah	d6
21 d5	S3:LAh	-22
25 d5	H:ALu	-26
29 d5	S3:Lu	d30

3 -	S2:Lu	d4
7 -	R*AL	d8
11 d4	R:AhLu	-12
15 -	S2:LA	d16

19 -	C:AR	d20
23 -	C:AhL	d5
27 -	L3:LuA	d8
31 -	L3:L	d32



65 -	P(LE)	L	66
69 -	A(AH)	LuAh	70
73 d2	P(A)	A	74
77 d2	A(A)	LA	78

67 d2	P(AH)	Ah	68
71 -	A(SA)	AhS	d72
75 d2	A(LE)	AL	76
79 -	P(SA)	S	d80

SYMBOLS

Rotations  
3 years ARABLE  
3 years LEY

TEST CROPS

TREATMENTS :-  
Treatment potatoes 1968:  
Fumigants -, F Nona, Chloropicrin in autumn 1967  
Nitrogen 2,3,4 10cut, 15cut, 20cut N as Nitro-chalk  
Sub-plots with 2\* tubers dusted with thiram before planting

1st test crop barley 1968:

Nitrogen after arable 1,2,3,4. 0.4cut, 0.8cut, 1.2cut, 1.6cut N.  
Nitrogen after ley and Sainfoin -, 1, 2, 3. Nona, 0.4cut, 0.8cut, 1.2cut  
N as Nitro-chalk.

ALL crops:

FYM -, d Residuals of nona v 15 tons FYM applied  
to sugar beet 1962-7. No fresh applications for 1968 crops,  
but fresh test resumes for 2nd test crop potatoes in 1969.

Treatment Crops  
A = Potatoes P, Rye R, Carrots C.  
Ah = Potatoes P, Rye 1/2 R\*, Hay H.  
S = Sainfoin cut for hay (Lu = Lucerne)  
L = Ley grazed  
1967, 68 Sugar Beet, Barley } In 4th  
1968, 69 Barley, Potatoes } & 5th years.

BLOCK 4 1st TEST CROP BARLEY

49 3	-	1	2	50	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z					
49 3	-	1	2	50	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z					
53 4	2	3	1	54	x	1	54	x	1	54	x	1	54	x	1	54	x	1	54	x	1	54	x	1	54	x	1	54	x	1	54	x			
57 3	-	2	3	58	x	2	3	58	x	2	3	58	x	2	3	58	x	2	3	58	x	2	3	58	x	2	3	58	x	2	3	58	x		
61 1	3	4	3	62	x	3	4	3	62	x	3	4	3	62	x	3	4	3	62	x	3	4	3	62	x	3	4	3	62	x	3	4	3	62	x
65 2	4	1	2	66	y	4	1	2	66	y	4	1	2	66	y	4	1	2	66	y	4	1	2	66	y	4	1	2	66	y	4	1	2	66	y



WOBURN 69/W/RN/3

STACKYARD 32<sup>nd</sup> year 1969 201A.

ARABLE & LEY ROTATIONS

01 d5	H Ah	- 02
05 d5	C A	- 06
09 -	L3 LuAh	d5 <sup>10</sup>
13 d5	L3 L	- 14

03 -	S3 Lu	d6 <sup>4</sup>
07 -	H AL	d5 <sup>08</sup>
11 d5	C AhLu	- 12
15 -	S3 LA	d5 <sup>16</sup>

1st TEST CROP BARLEY

171	1	2	3	1181	2	12	1	d6
3	4	2	3	3	3	4	4	
211	1	2	2	221	2	1	2	
3	3	4	3	3	3	4	3	
251	1	2	3	261	4	2	3	
3	2	4	4	3	1	4	2	
291	1	2	3	301	3	2	- d6	
3	-	4	2	3	1	4	2	

2nd TEST CROP

191	1	2	4	201	4	2	2	d6
3	2	4	3	3	1	4	3	
231	1	2	2	241	4	2	1	d6
3	3	4	4	3	2	4	3	
271	3	2	2	281	1	2	2	d6
3	1	4	-	3	3	4	-	
311	2	2	1	321	-	2	3	d6
3	-	4	3	3	2	4	1	

33	d4	S2 Lu	34	-
37	-	L2 LuA	38	d4
41	-	S2 LAh	42	d4
451	-	R Ah	461	d4
2	f	-	2	d4

351	f	R Ah	361	f	361
2	-	-	2	-	2
391	d4	-	401	f	401
43	-	L2 L	44	d4	44
471	f	R Ah	481	f	481
2	-	-	2	-	2

BARLEY 1ST TREATMENT

49 d7	AhL	- 50
53 -	Ah	d754
57 d7	L	- 58
61 -	LUA	d762

51 -	AS	d752
55 -	LAh	d756
59 d7	S	- 60
63 d7	A	- 64

65 BLOCKS 1ST TREATMENT

CROPS POTATOES, LEY, SAINFOIN 80

For plot treatments see 284

Separate plan 201B

Blk 1

SYMBOLS  
Rotations

3 years ARABLE A = Potatoes P, Rye R, Carrots C.  
Ah = Potatoes P, Rye R\*, Hay H.  
S = Sainfoin cut for hay (Lu = Lucerne)  
L1 & L2 = Ley cut, L3 = Ley grazed

TEST CROPS In 4th and 5th years.

1st Test crop  
1967 Sugar beet  
1968 Barley  
1969 Barley sown: Mar 24. Barley sown: Mar 24

TREATMENTS :-

1st Test crop barley 1969 0.8 cut  
Nitrogen after arable 1,2,3,4 0.4 cut / 1.2 cut, 1.6 cut N.  
Nitrogen after ley and sainfoin -, 1,2,3 None, 0.4 cut 0.8 cut, 1.2 cut N as 'Nitro-chalk'.  
Residues of fumigant applied to potatoes 1968 now rye.  
-, f None, chloropicrin in autumn 1967.  
BASAL MANURING per acre for test crops and rye.  
1st test crop barley - 0.5 cut P<sub>2</sub>O<sub>5</sub>, 0.5 cut K<sub>2</sub>O as (0:20:20).  
2nd test crop barley - 0.5 cut N, 0.5 cut P<sub>2</sub>O<sub>5</sub>, 0.5 cut K<sub>2</sub>O as (15:15:15).  
Rye - 0.3 cut N as 'Nitro-chalk', 0.3 cut P<sub>2</sub>O<sub>5</sub>, 0.6 cut K<sub>2</sub>O as (0:14:28)

ALL CROPS :-

FYM -, d Residuals of none v 15 tons FYM applied to Sugar beet 1962-67.

Varieties Barley: Moris Badger, Potatoes: Moris Piper



STACKYARD 'D' 33rd year 1970 201 A

ARABLE AND LEY ROTATIONS

W OBURN

70/M/RN/3

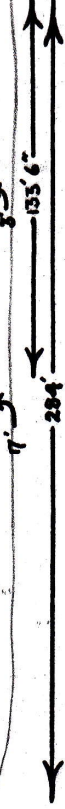
011 Ah	4	2	101	2	3	1	2	3	1	2	3	1	2	3
051 A	3	1	101	3	1	4	4	4	3	1	4	4	4	4
091 AhL	2	4	101	3	1	4	2	2	3	1	4	2	2	2
131 L	2	4	101	3	3	4	2	2	3	3	4	2	2	2

17	19	21	23	25	27
1Ah	1Ah	1Ah	1Ah	1Ah	1Ah
1AhS	1AhS	1AhS	1AhS	1AhS	1AhS
1LuAh	1LuAh	1LuAh	1LuAh	1LuAh	1LuAh
1S	1S	1S	1S	1S	1S

33	35	37	39	41	43
S3:Lu	S3:Lu	S3:Lu	S3:Lu	S3:Lu	S3:Lu
L3:LuA	L3:LuA	L3:LuA	L3:LuA	L3:LuA	L3:LuA
S3:LAh	S3:LAh	S3:LAh	S3:LAh	S3:LAh	S3:LAh
H:Ah	H:Ah	H:Ah	H:Ah	H:Ah	H:Ah

49	51	53	55	57	59
L2:L	L2:L	L2:L	L2:L	L2:L	L2:L
L2:LuAh	L2:LuAh	L2:LuAh	L2:LuAh	L2:LuAh	L2:LuAh
R:AR	R:AR	R:AR	R:AR	R:AR	R:AR
S2:LA	S2:LA	S2:LA	S2:LA	S2:LA	S2:LA

65	67	69	71	73	75
R:Ah	R:Ah	R:Ah	R:Ah	R:Ah	R:Ah
R:SA	R:SA	R:SA	R:SA	R:SA	R:SA
R:ALE	R:ALE	R:ALE	R:ALE	R:ALE	R:ALE
S2:S	S2:S	S2:S	S2:S	S2:S	S2:S



**SYMBOLS**  
Rotations

3 years ARABLE A = Potatoes P, Rye R, Carrots C.  
Ah = Potatoes P, Rye 1/2 R, Hay H.  
3 years LEY S = Sainfoin cut for hay (Lu = Lucerne)  
L = Ley cut (No more grazing)

TEST CROPS In 4th and 5th years  
1st Test Crop Barley  
2nd Test Crop Barley

1969 Barley  
1970 Barley @ 140lb Barley @ 156lb sown: 25 Mar

TREATMENTS:-

1st Test crop barley 1970  
Nitrogen after arable 1, 2, 3, 4. 0-4, 0-8, 1-2, 1-6 cut N  
Nitrogen after ley and sainfoin -1, 2, 3. None, 0-4, 0-8, 1-2 cut N as Nitro-chalk 2i.  
Residues of fumigant applied to potatoes 1968, now carrots or hay (-), (F). None, Chloropicrin in autumn 1967.  
Residues of fumigant applied to potatoes 1969, now Ley (-), (C) None, Chloropicrin in autumn 1968

BASAL MANURING per acre for test crops and Rye

1st test crop barley - 0.5 cut P<sub>2</sub>O<sub>5</sub>, 0.5 cut K<sub>2</sub>O as (0:20:20)  
2nd test crop barley - 0.5 cut N, 0.5 cut P<sub>2</sub>O<sub>5</sub>, 0.5 cut K<sub>2</sub>O as (15:15:15)  
Rye - 0.3 cut N as Nitro-chalk, 0.3 cut P<sub>2</sub>O<sub>5</sub>, 0.6 cut K<sub>2</sub>O as (0:14:28)

ALL crops:-

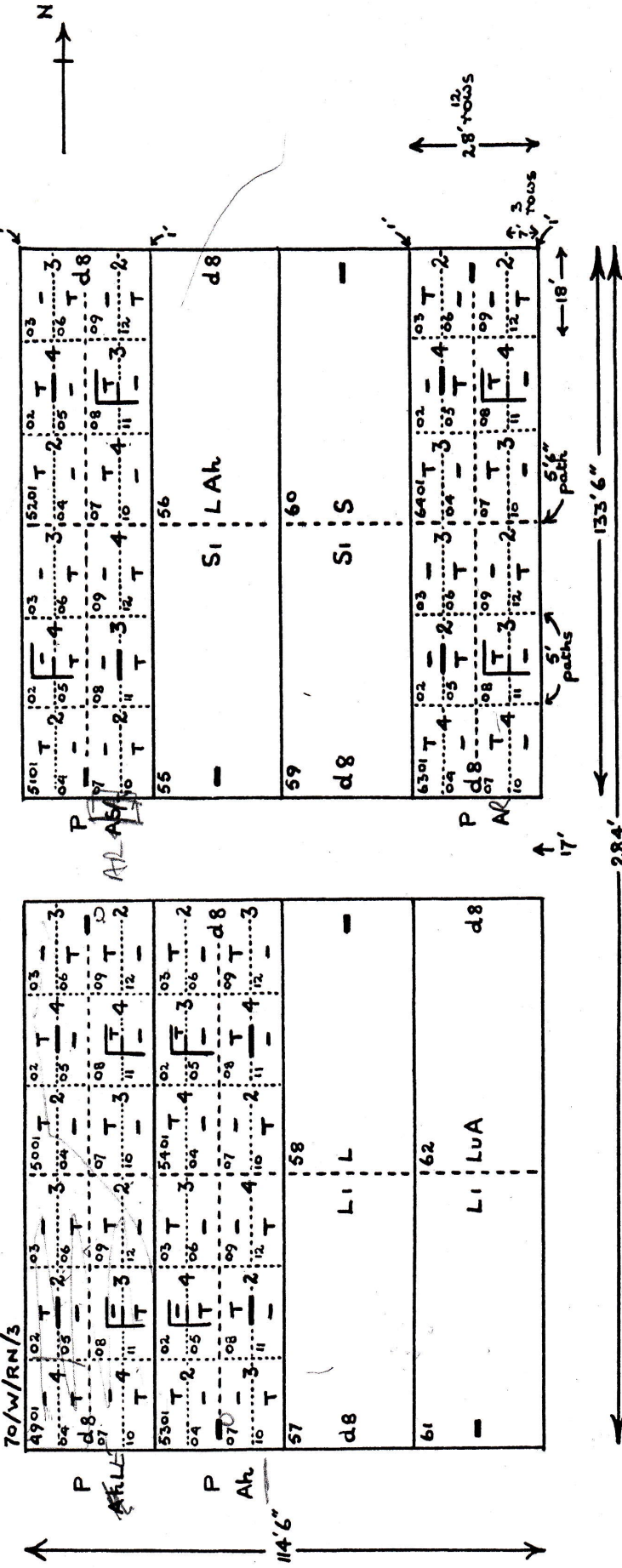
FYM -, d Residuals of none v 15 tons FYM applied to sugar beet 1962-67

Varieties: Barley: Moris Badger, Potatoes: Moris Piper, 2nd test crop Barley: Julia



WOBURN ARABLE & LEY ROTATIONS 33<sup>rd</sup> year STACKYARD D 1970 201B

Potato Treatments Block 4



TREATMENTS per acre

- Whole plots  
 - , d8 None, FYM residues applied 1963  
Half plots - Fumigant  
 - , F None, chloropicrin at 400lb  
1/6 plots - Nitrogen rates  
 2,3,4 1.0, 1.5, 2.0 cwt Nas 'Nitro-chalk' 21  
1/2 plots - Nematicide  
 - , T None, Temik at 100lb of 10% granules.

BASAL MANURING per acre

0.9 cwt P<sub>2</sub>O<sub>5</sub>, 1.8 cwt K<sub>2</sub>O as compound fertiliser (0:14:28)  
 336 lb Epsom salts

VARIETY: Maris Piper

Planted: 22 Apr.

PLOT AREA 18' x 7' = 0.0029 acre

harvested one row 2' 4" x 18' = 0.0010 acre



STACKYARD 'D' 34th year 1971 201A

→ N

ARABLE AND LEY ROTATIONS

WOBURN

T1/W/RN/3

01 d7	Ah	02 d8	S	03 d9	04 d10
05 d7	A	06 d8	LAh	07 d9	08 d10
09 d7	AhL	10 d8	LuA	11 d9	12 d10
13 d7	L	14 d8	AS	15 d9	16 d10

17 d8	PAh	18 d9	PA	19 d10	20 d11
21 d8	PAhS	22 d9	S:LA	23 d10	24 d11
25 d8	L:LuAh	26 d9	PAAL	27 d10	28 d11
29 d8	S:S	30 d9	L:L	31 d10	32 d11

33	Block 3 1st Test	48
----	------------------	----

For plot treatments

48	(F) R	51	(F) R	54	(F) R
49	(F) R	52	(F) R	55	(F) R
53	(F) R	56	(F) R	59	(F) R
57	(F) R	60	(F) R	63	(F) R
61	(F) R	64	(F) R	67	(F) R

65	L3 L	66	L3 L	69	L3 LuAh
73	(-)	74	(-)	77	(-)
75	(C)	76	(C)	79	(C)
77	S3 LA	78	S3 S	81	S3 S

Blk

1

2

3

4

5

SYMBOLS

Rotations

3 years ARABLE A = Potatoes P, Rye R, Carrots C.

Ah = Potatoes P, Rye 1/2\*, Hay H.

S = Sainfoin cut for hay (Lu: Lucerne).

L = Ley cut (No more grazing)

TEST CROPS In 4th and 5th years

1st Test Crop

Barley

Potatoes

2nd Test Crop

Barley

Barley @ 150lb (168kg)

TREATMENTS: Planted: 30 Mar. Sown: 10 Mar.

Residues of Fumigant applied to potatoes 1969 now carrots

(-), (C) None, Chloropicrin in autumn 1968

Residues of Fumigant applied to potatoes 1970 now rye

(-), (F) None, Chloropicrin in autumn 1969

BASAL MANURING per acre (hectare) for 2nd test crop & treatment crops.

2nd test crop Barley - Julia.

0.5 cut (45kg) N, 0.5 cut (53kg) P<sub>2</sub>O<sub>5</sub>, 0.5 cut (53kg) K<sub>2</sub>O as (15:15:15)

1st treatment crop potatoes - Maris Piper

2.0 cut (252kg) N, 2.0 cut (252kg) P<sub>2</sub>O<sub>5</sub>, 3.0 cut (376kg) K<sub>2</sub>O as (15:15:20)

2nd treatment crop rye - King II

0.5 cut (38 kg) N as Nitro-chalk 2:1, 0.3 cut (38kg) P<sub>2</sub>O<sub>5</sub>, 0.6 cut (76kg) K<sub>2</sub>O as (0:14:28).

3rd treatment crop carrots - Autumn King

0.6 cut (76kg) N as Nitro-chalk 2:1, 0.6 cut (76kg) P<sub>2</sub>O<sub>5</sub> as superphosphate

1.8 cut (226kg) K<sub>2</sub>O as muriate of potash

All crops :-

FYM -, d. Residues of none v 15 tons FYM applied

to sugar beet 1962-67

↑ A

600'6"

↑

284'

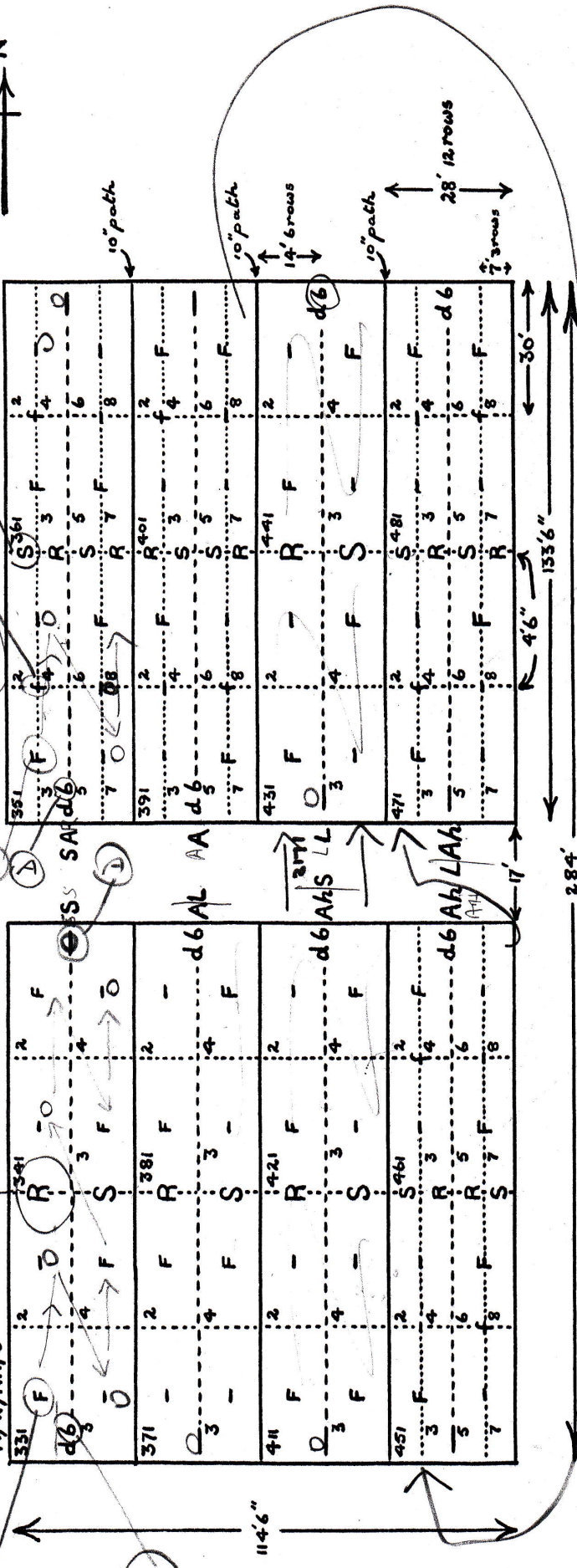


WOBURN 3171  
71/W/RN/3

ARABLE AND LEY ROTATIONS  
Potatoes Block 3

33rd year

STACKYARD D 1971 2018



TREATMENTS per acre (hectare)

Dung residues

- , d6 None, FYM residues - last applied 1966.

Chloropicrin residues

- , f None, 400lb (448kg) Chloropicrin in 1968.

Fresh chloropicrin and temik

- None

F 400lb (448kg) chloropicrin in autumn 1970  
+ 100lb (112kg) of 10% granules of temik  
in spring 1971.

Varieties Planted 30 March.

R resistant to *H. rostochianensis* Maris Piper

S susceptible to *H. rostochianensis* Pentland Crown

BASAL MANURING per acre (hectare)

1752lb (1964kg) compound fertiliser (13:13:20) broadcast 26 Mar.

PLOT AREA

Plots without chloropicrin residues 14' x 30' = 0.0096 acre (0.0039 ha)

Plots with chloropicrin residues 7' x 30' = 0.0048 acre (0.0048 ha)



201 A

STACKYARD "D" 35th year 1972

SYMBOLS

Rotations

3 years ARABLE A = Potatoes P, Barley B, Barley B.

Ah = Potatoes P, Barley B 1/2\*, Hay H.

3 years LEY C = Red Clover cut for hay (S = Sainfoin, Lu = Lucerne).

L = Ley Cut

TEST CROPS In 4th and 5th years

1st Test Crop: Potatoes

2nd Test Crop: Barley

Winter Wheat (W)

planted: 29 Mar. Sown: Wheat: 22 Oct. Barley: 15 Nov

TREATMENTS:-

2nd Test Crop W/Wheat - Coppella dressed diadrin & fungicide

Nitrogen Rates/and Residues of Fungicides to Potatoes 1971

N0, N1, N2, N3 None, 0.5 cut (65kg), 1.0 cut (126kg), 1.5 cut (189kg) Nas Nitro-chalk 21

(-), (f) None, 400lb (448kg) chloropicrin + 100lb (112kg) of 10% granules of temik

BASAL MANURING per acre (hectare)

2nd Test crop W/Wheat - 260lb (291kg) of compound fertiliser (0:20:20) c.d.

2nd & 3rd Test crop Barley - Julia at 137lb (154kg)

370 lb of compound fertiliser (415kg) (15:15:15) c.d.

3rd Test crop Hay 28 1971 in Ry

1.0 cut (126kg) Nas Nitro-chalk 21, 0.6 cut (75kg) P2O5, 1.2 cut (151kg) K2O as (0:14:28)

in spring. 0.6 cut (75kg) N, 0.4 cut (50kg) K2O as (26:0:16) after 1st cut.

TREATMENT & BASAL MANURING per acre (hectare) 1st Test crop - potatoes

- F None, 400lb (448kg) chloropicrin in autumn 1971 + 50lb (56kg) Temik in spring.

2.0 cut (252kg) N, 2.0 cut (252kg) P2O5, 3.0 cut (376kg) K2O as (33:13:20). (56kg old (ca 16)

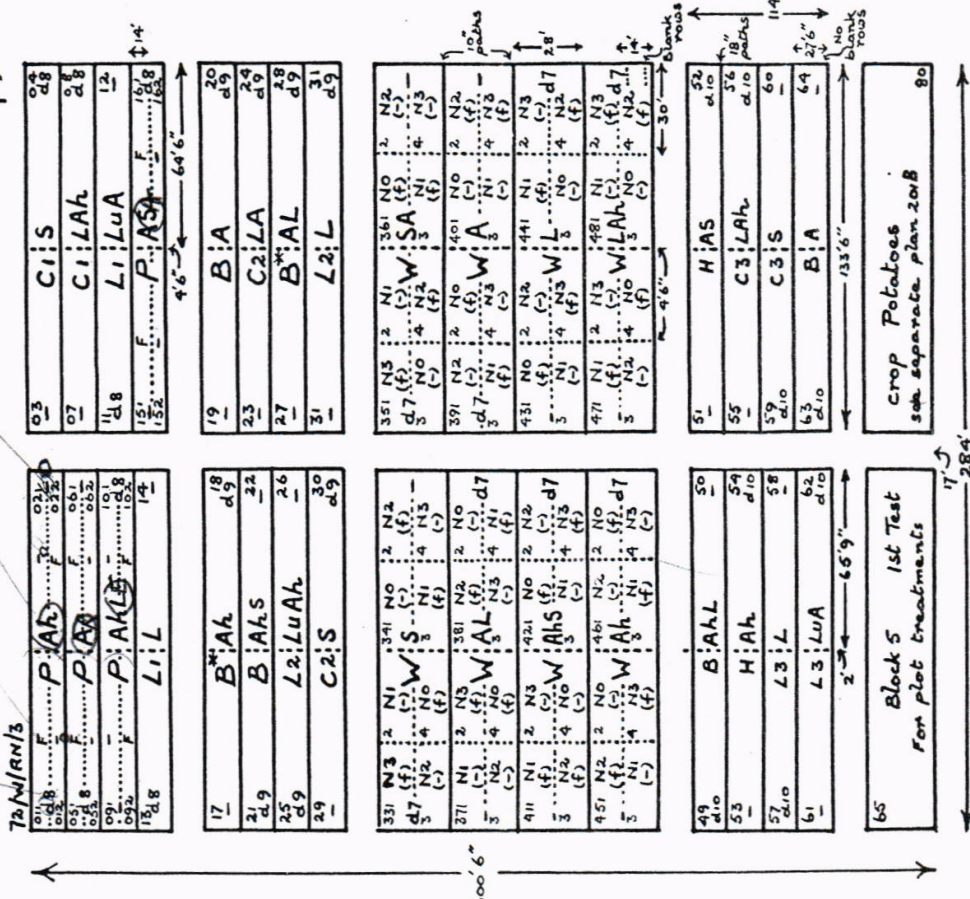
Variety - Maris Piper planted: 29 March

All Crops:- FYM - d Residuals of None v. 15 tons (38 tonnes) FYM

applied to sugar beet 1962-67 (1st test crop).

ARABLE AND LEY ROTATIONS

WOBBURN





2018

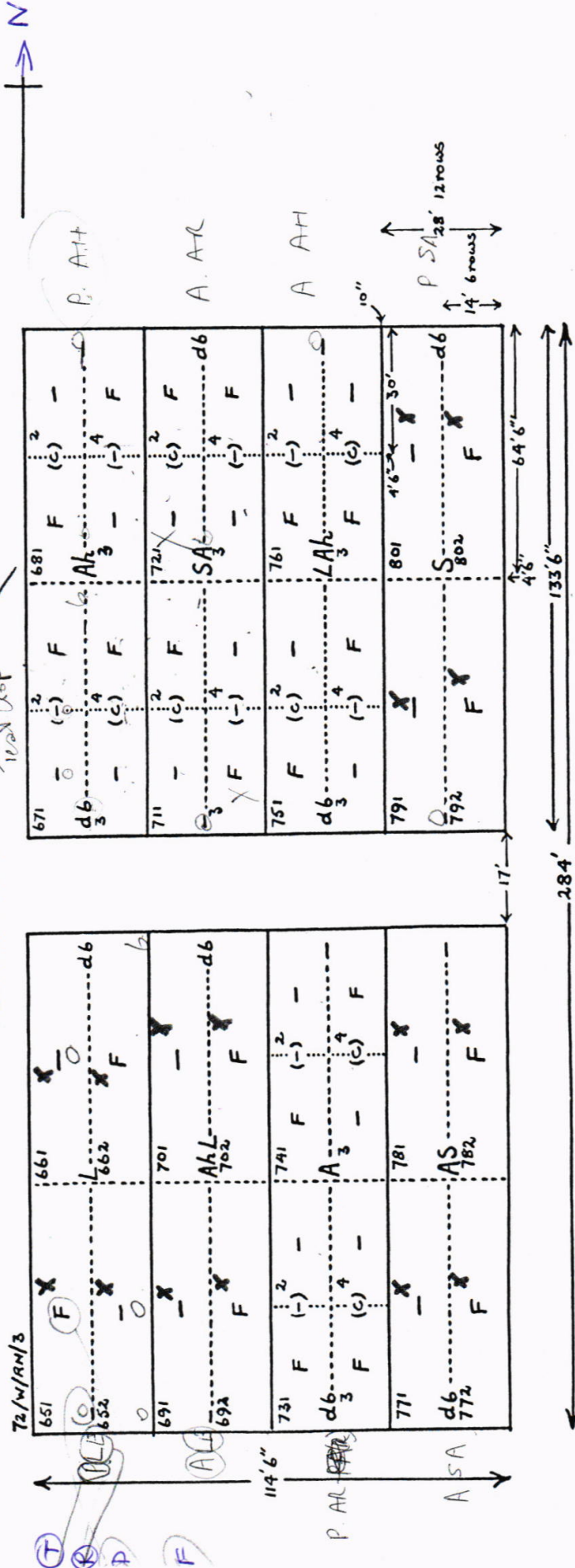
STACKYARD D 1972

35th year

ARABLE AND LEY ROTATION

Potatoes Blocks

1000 crop



TREATMENTS per acre (hectare)

- Dung residues
- , d6 None, FYM residues last applied 1967
- chloropicrin residues
- (-), (C) None 400lb (448kg) chloropicrin in 1969
- Fresh chloropicrin and temik
- None
- F 400lb (448kg) chloropicrin in autumn 1971 + 50lb (56kg) of 10% granules of temik in Spring 1972

VARIETY 'Resistant' to H.rostochianensis Maris Piper

- Planted: 29 Mar.
- BASAL MANURING per acre (hectare)
- 1752 lb (1964 kg) compound fertiliser (13:13:20)
- PLOT AREA
- Plots with chloropicrin residues 14' x 30' = 0.0096 acre (0.0039 ha)
- Plots without chloropicrin residues 14' x 64' 6" = 0.0207 acre (0.0084 ha)

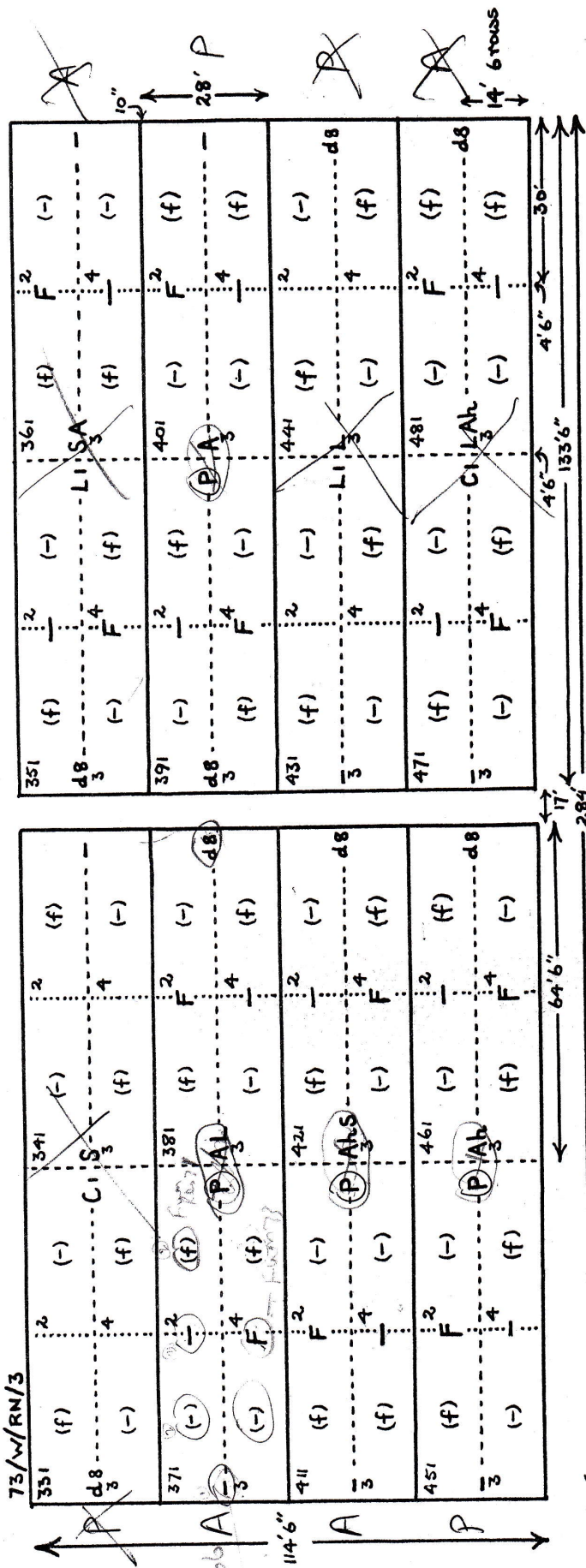






WOBURN  
36th year STACKYARD 'D' 1973 201 B

ARABLE AND LEY ROTATION  
1st treatment crops Block 3



Residues of Fungicides applied to Potatoes 1971  
(-), (f) None, 400 lb (448 kg) chloropicrin + 10 lb (112 kg) of aldicarb

VARIETY Potatoes - Morris Piper Planted: 17 Apr

BASAL MANURING per acre (hectare) - Potatoes  
1750 lb (1939 kg) compound fertiliser (13:13:20)

SUB - PLOT AREA 14' x 30' = 0.0096 acre (0.0039 ha)

SYMBOLS  
Rotations

3 years ARABLE A = Potatoes P, Barley B, Barley B.

Ah = Potatoes P, Barley B 1/2s, Hay H

3 years LEY C = Red Clover cut for hay (5 = Sainfoin)

L = Ley Cut

TREATMENTS per acre (hectare) Fungicide

- , F None 400 lb (448 kg) chloropicrin + 60 lb (67 kg)

& aldicarb (applied to plots 35/36 & 47/48 in error)



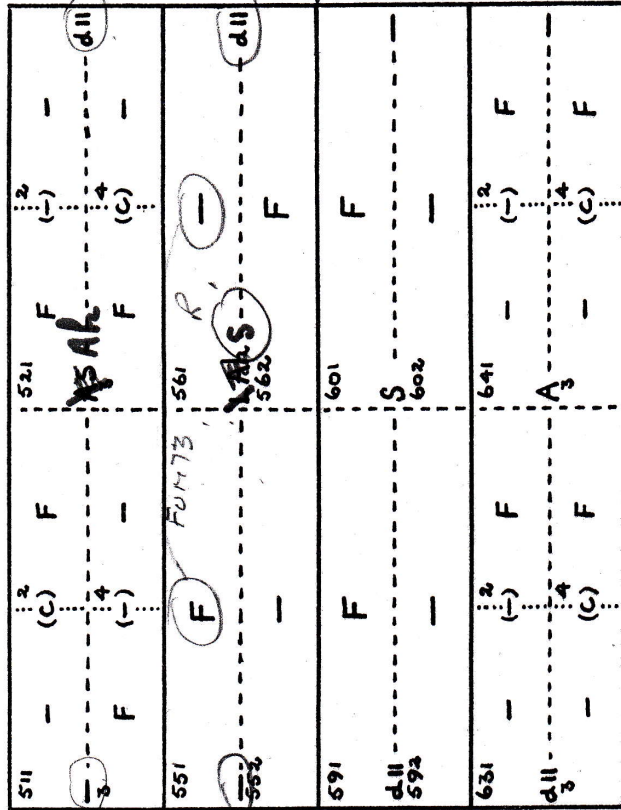
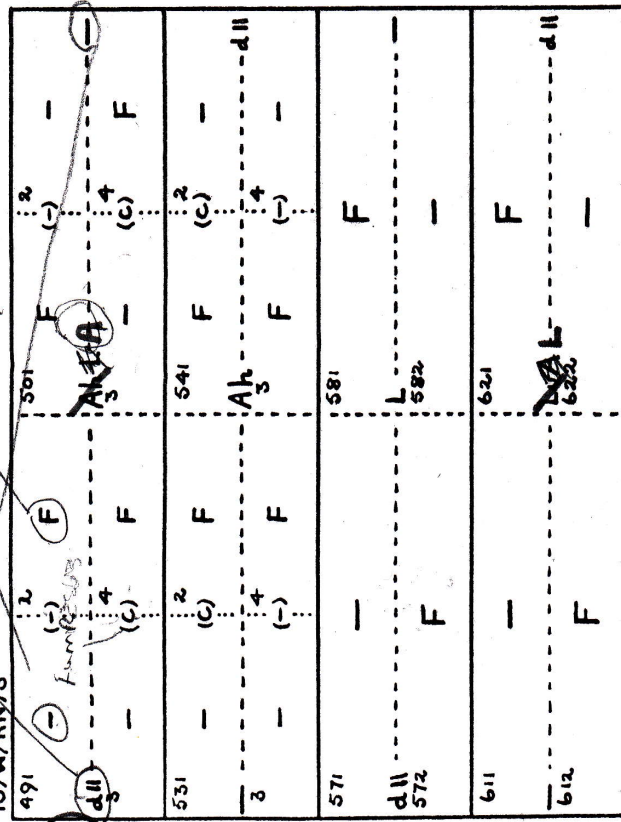
WOBURN 36th year STACKYARD D 1973 201C

→ N

Amended Plan 3d/1/73

ARABLE AND LEY ROTATION Block 4

1st Test Crop



17' 284' 4'6" 133'6" 4'6" 30'

TREATMENTS per acre (hectare)

F.Y.M. residues

- , d II None, F.Y.M. residues - last applied 1963

chloropicrin residues

(-), (c) None, 400lb (448kg) chloropicrin for potatoes 1970

Fresh Fumigant

- None

F 400lb (448kg) chloropicrin in early spring 1975

+ 6.4lb (67 kg) of aldicarb

VARIETY Maris Piper

Planted: 9 Apr.

BASAL MANURING per acre (hectare)

1730 lb (1939 kg) compound fertiliser (13:13:20)

PLOT AREA

Plots with chloropicrin residues 14' x 30' = 0.0096 acre (0.0089ha)

Plots without chloropicrin residues 14' x 64'6" = 0.0207 acre (0.0084ha)

Type Rotation F.Y.M. RES 6 FUMIGANT 70 FUMIGANT 73



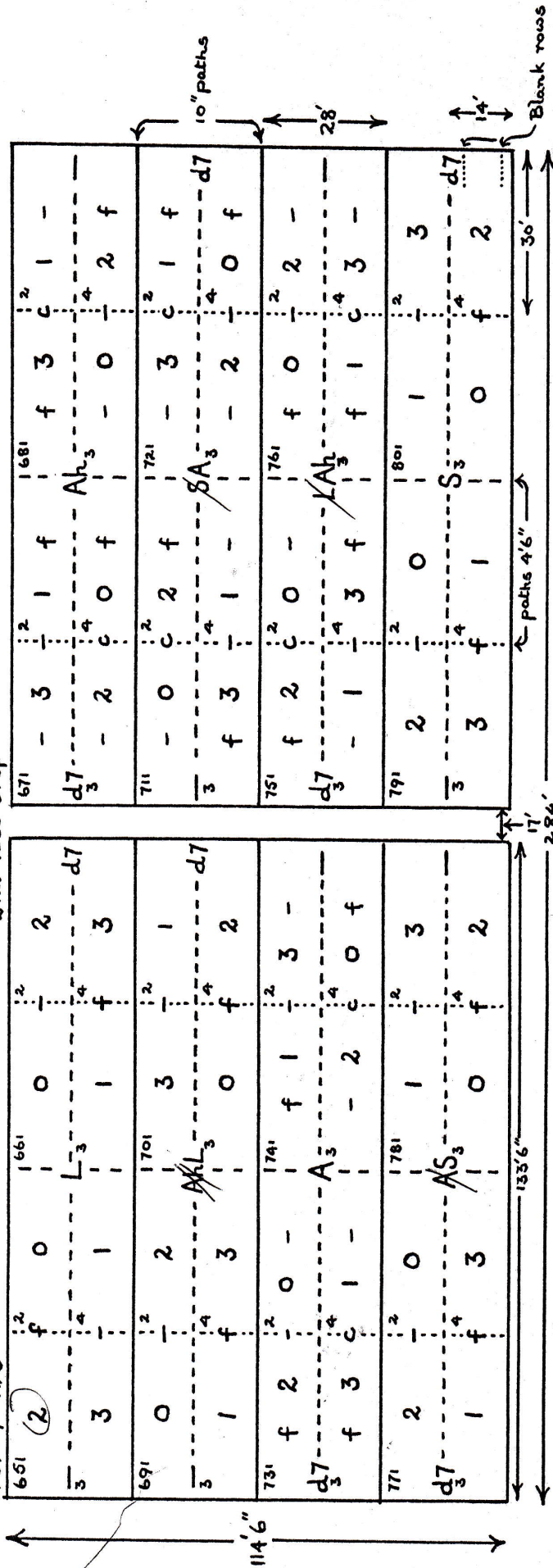
201 D

STACKYARD D 1973

36<sup>th</sup> year

ARABLE ANDLEY ROTATION

W. Wheat  
2nd Test Crop  
Block 5



TREATMENTS per acre (hectare)

F.Y.M. residues

- , d7 None, F.Y.M. residues - last applied 1967.

Chloropicrin + aldicarb residues

- , f None, 400lb (448kg) chloropicrin in autumn  
1971 + 10lb (11kg) aldicarb in spring 1972.

chloropicrin residues

- , c None, 400lb (448kg) chloropicrin in 1969

Nitrogen

0, 1, 2, 3 None, 0.5, 1.0, 1.5 cwt N (63, 126, 189 kg) as 'Nitro-chalk' 25

BASAL MANURING per acre (hectare)

265lb (297kg) compound fertiliser (0:20:20).

VARIETY

Cappelle (dressed dieldrin) sown at 175lb (196 kg) Date: 24 Nov.

PLOT AREA

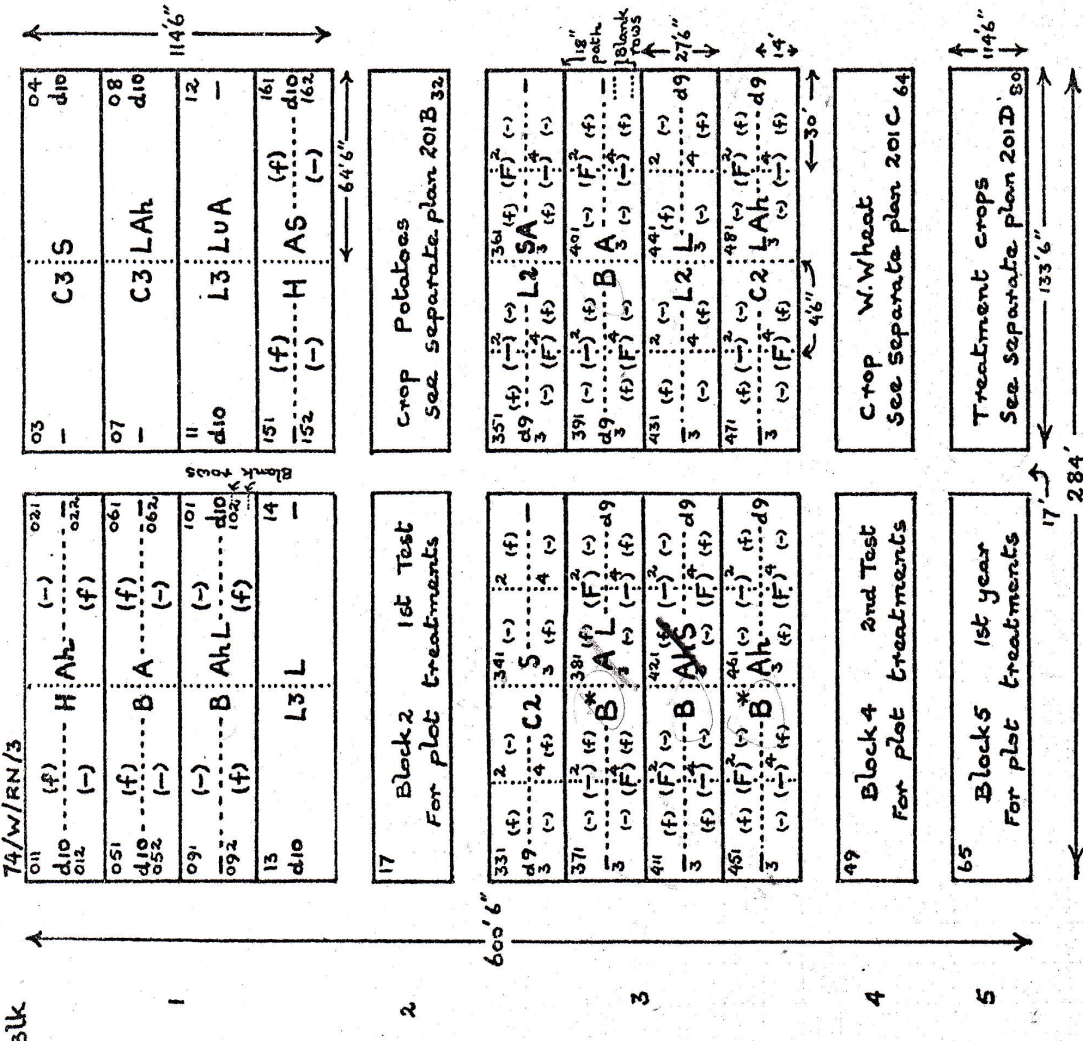
14' x 30' = 0.0096 acre (0.0039 ha).  
Harvested 9'4" x 30' = 0.0064 acre (0.0026 ha).

37th year → N Sponsors: D.A. Boyd, J.M. Hirst, A.E. Johnston, F.G.W. Jones

37th year → N

ARABLE AND LEY ROTATION

WOBURN 74/W/RN/3



SYMBOLS

Rotations

3 years ARABLE A = Potatoes P, Barley B, Barley B.

Ah = Potatoes P, Barley B 1/2, Hay H.

3 years LEY C = Red clover cut for hay (S:Saintfoin, Lu:Lucerne)

L = Ley, cut.

2nd and 3rd TREATMENT CROPS

Residues of fumigants applied to Potatoes 1971-2nd treatment crops 1974

(-), (f) None, 400lb (498kg) chloropicrin + 10lb (11kg) Aldicarb.

Residues of fumigants applied to 1st treatment crops 1973-2nd treatment crops 1974

(-), (F) None, 400lb (498kg) chloropicrin + 6lb (67kg) Aldicarb. (Applied to plots 35/36 & 47/48 in error.)

Residues of fumigants applied to Potatoes 1972-3rd treatment crops 1974.

(-), (f) None, 400lb (498kg) chloropicrin + 5lb (6kg) Aldicarb.

2nd and 3rd treatment Barley (Julia dressed ethinmol) sown:

337lb (418kg) compound fertiliser (15:15:15) C.D.

3rd treatment crop Hay 1/2 1973 in Barley

1.0 cut (126kg) N as Nitro-chalk 2.5, 0.6 cut (75kg) P<sub>2</sub>O<sub>5</sub>, 1.2 cut (151kg) K<sub>2</sub>O as (0:14:28) in Spring.

0.6 cut (75kg) N, 0.4 cut (50kg) K<sub>2</sub>O as (25:0:16) after 1st cut.

2nd and 3rd year cut Ley

1.2 cut (151kg) N, 0.9 cut (113kg) K<sub>2</sub>O as (25:0:16) in three equal dressings.

Any dressing may be omitted or reduced in a wet season.

2nd and 3rd year clover

0.5 cut (63kg) N as Nitro-chalk 2.5, 1.5 (188kg) K<sub>2</sub>O as muriate of potash, in Spring.

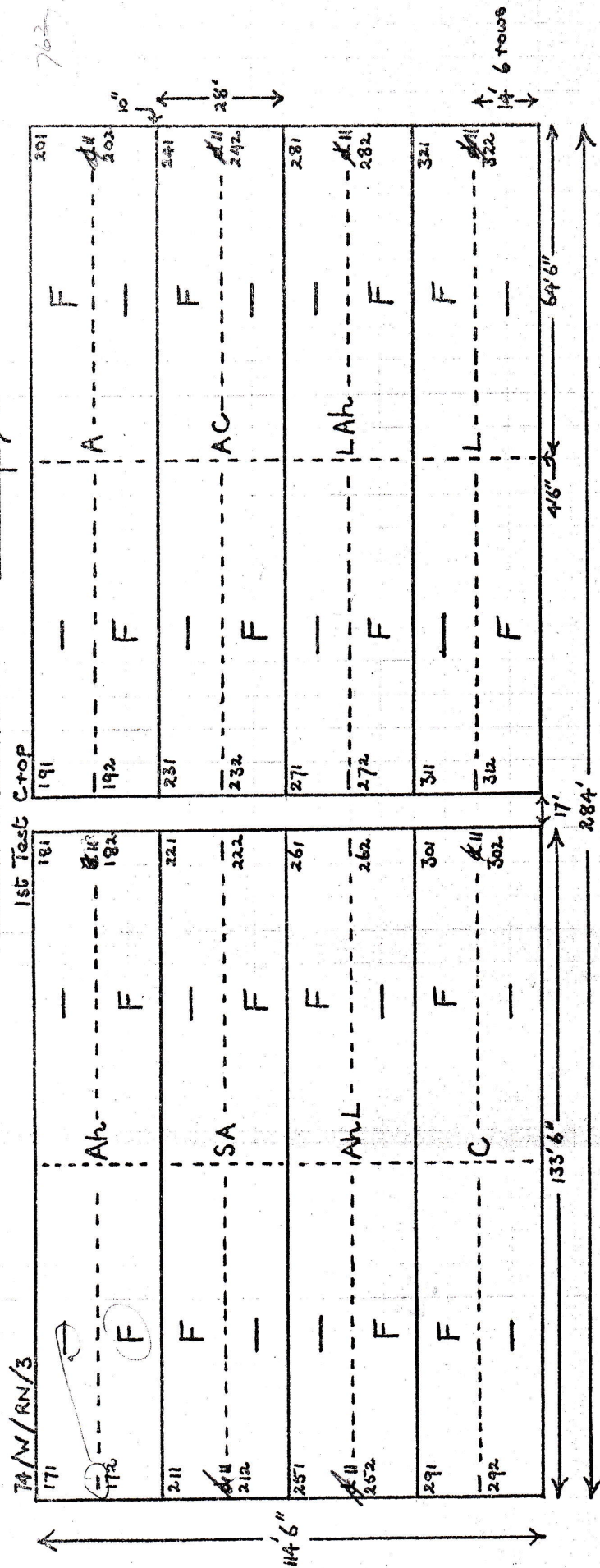
ALL CROPS :- FYM

- , d Residual of none v. 15 tons (38 tonnes). FYM applied to

Sugar beet 1962-67 (1st test crop).



WOBURN  
74/W/RN/3  
ARABLE AND LEY ROTATION 3 1/2 year  
Block 2  
Stackyard D 19/4



VARIETY Maris Piper Planted: 10 Apr

BASAL MANURING per acre (hectare)  
1730lb (1939kg) compound fertiliser (13:13:20).

PLOT AREA  
14' x 64'6" = 0.0207 acre (0.0084 ha)

TREATMENTS per acre (hectare)  
FYM residues  
-, d.11 None, FYM residues - last applied 1964

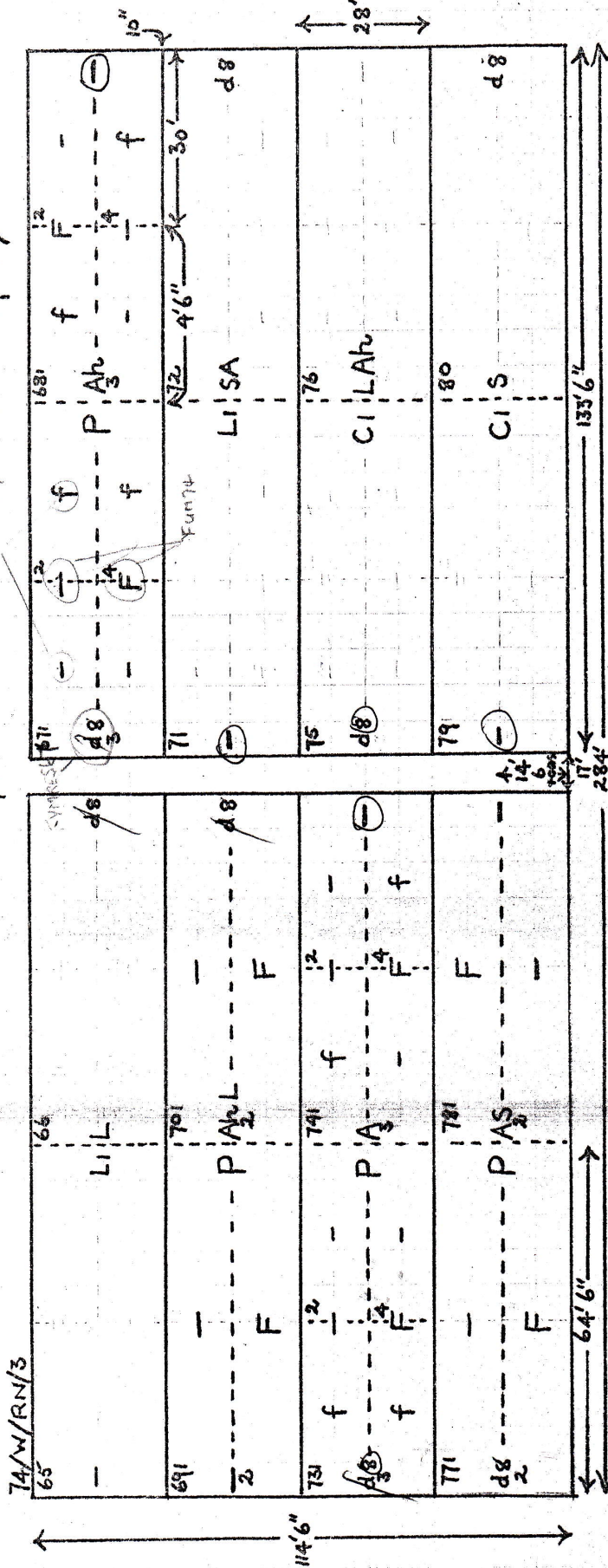
FUMIGANTS  
- None  
F 200lb (224kg) Telone in autumn + 6lb (6.7kg) aldicarb in spring

WOBURN  
74/W/RN/3

ARABLE AND LEY ROTATION  
1st treatment crops  
Block 5

37th year  
STACKYARD D 1974 201D

FURRES 72



SYMBOLS  
Rotations

3 years ARABLE A= Potatoes P, Barley B, Barley B.  
Ah= Potatoes P, Barley B, Hay H.

3 years LEY C = Red Clover cut for hay (S = Sainfoin) Sown: 5 Apr  
L = Ley Cut. Sown: 5 Apr

TREATMENTS per acre (hectare) Fumigants cumulative on 1969

- , F. None, 200lb (224kg) Telone applied: 22 Nov, plus  
6lb (6.7kg) aldicarb applied: 9 Apr

Chloropicrin + aldicarb residues applied to potatoes 1972  
-, f None, Chloropicrin + aldicarb

FYM residues

- , d8 None, FYM residues - last applied 1967

VARIETY Potatoes - Maris Piper Planted: 10 Apr

BASAL MANURING per acre (hectare)

1730lb (1939kg) compound fertiliser (13:13:20)

SUB-PLOT AREA

14' x 30' = 0.0096 acre (0.0039 ha)





201 B

WOBURN

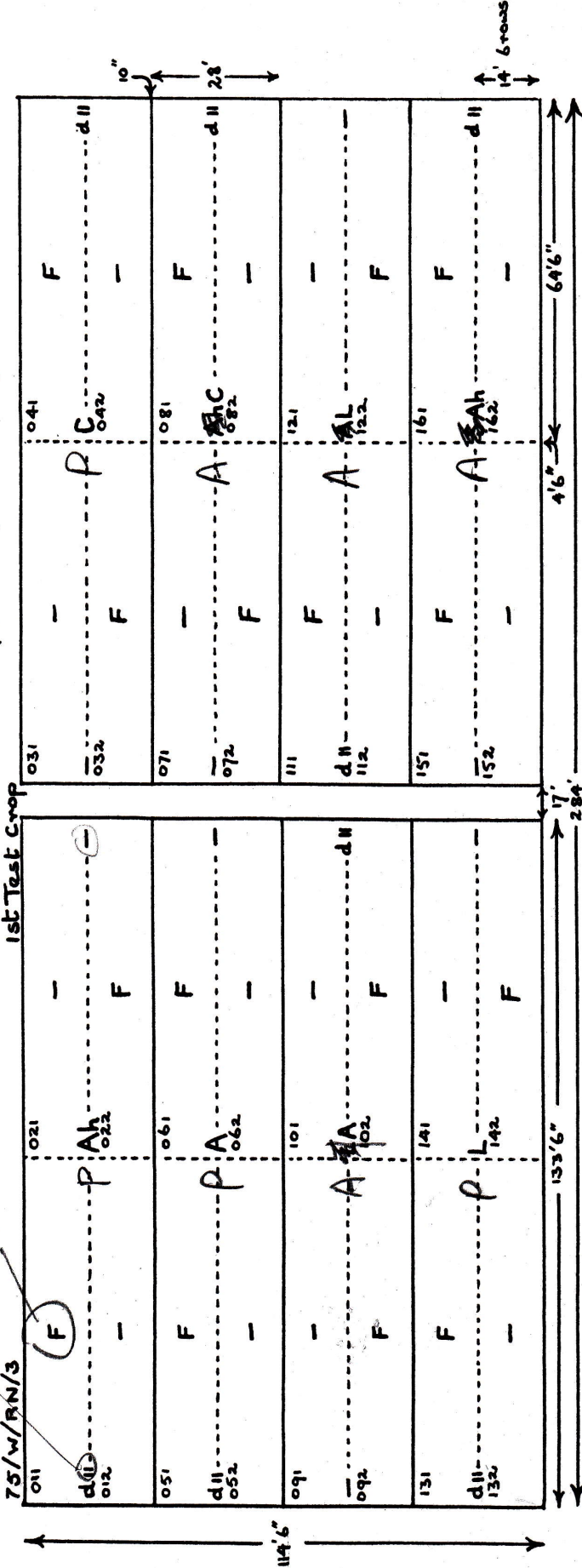
75/w/RN/3

ARABLE AND LEY ROTATION

38th year

STACKYARD D 1975

Potatoes Block 1 → N Sponsors: D.A. Boyd, J.M. Hirst, A.E. Johnston, F.M. Jones



TREATMENTS per acre (hectare)

FYM residues

- , d II None, FYM residues - last applied 1965.

FUMIGANTS

- None  
 F 200lb (224kg) 'Telone' in autumn +  
 10lb (11.2kg) aldicarb in spring

VARIETY Mavis Piper

Planted: 5 May

BASAL MANURING per acre (hectare)

1730lb (1939 kg) compound fertiliser (13:13:20)

PLOT AREA

14' x 64'6" = 0.0207 acre (0.0084 ha)



201 C

STACKYARD D 1975

38th year

ARABLE AND LEY ROTATION

Winter Wheat Block 2

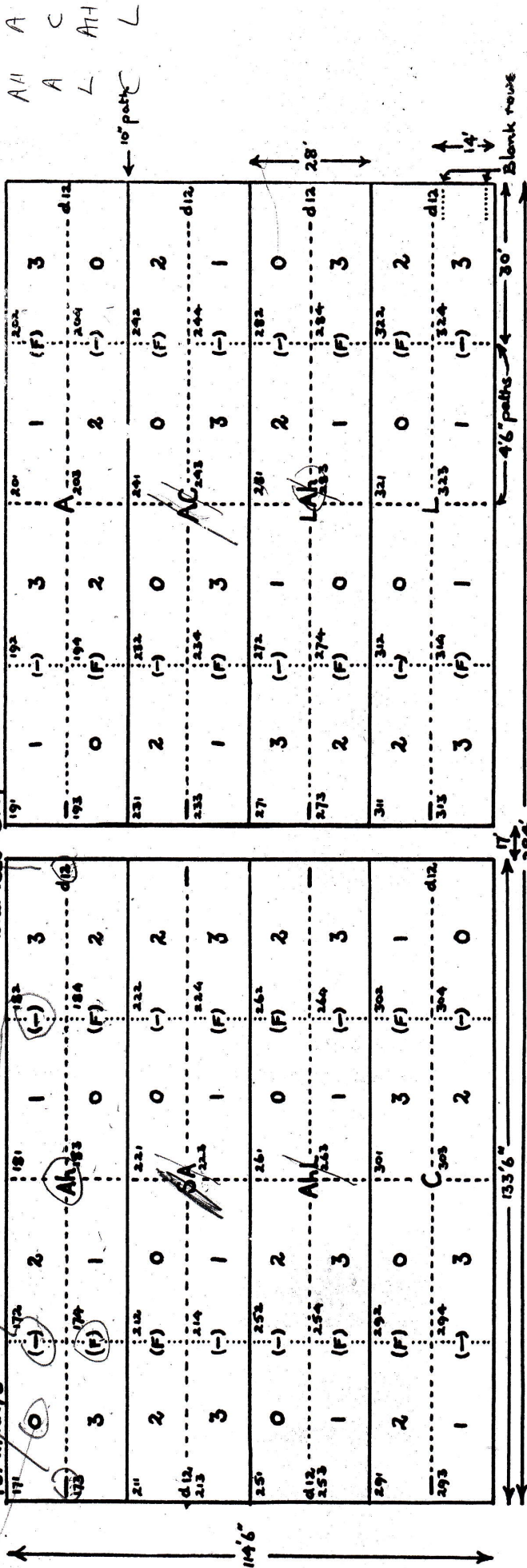
2nd Test Crop

FUMRES 74

WOBURN

FYM RES 64

N Sponsors: D.A. Boyd, J.M. Hirst, A.E. Dunston, J.G.M. Jones



Nitrogen

0, 1, 2, 3 None, 0.5, 1.0, 1.5 cut N (63, 126, 189 kg) as Nitro-chalk 2.5

BASAL MANURING per acre (hectare)

260 lb (290 kg) of (0:20:20) C.D.

VARIETY

Cappelle dressed die/drain

PLOT AREA

14' x 30' = 0.0096 acre (0.0039 ha.)  
Harvested: 9'4" x 30' = 0.0064 acre (0.0026 ha.)

TREATMENTS per acre (hectare)

FYM residues

-, d 12 None, FYM residues - last applied 1964

Fumigants - applied for potatoes 1974

(-) None

(F) Residues of 200 lb (224 kg) Telone + 6 lb (6.7 kg) aldicarb.

PERM A/L 1

sown @ 1175 lb (96 kg) Date: 8 Nov 1974

Woburn 75/M/RN/3 (1) Fumigant 73 (2) Fumigant 75 (3) Fumigant 701 D

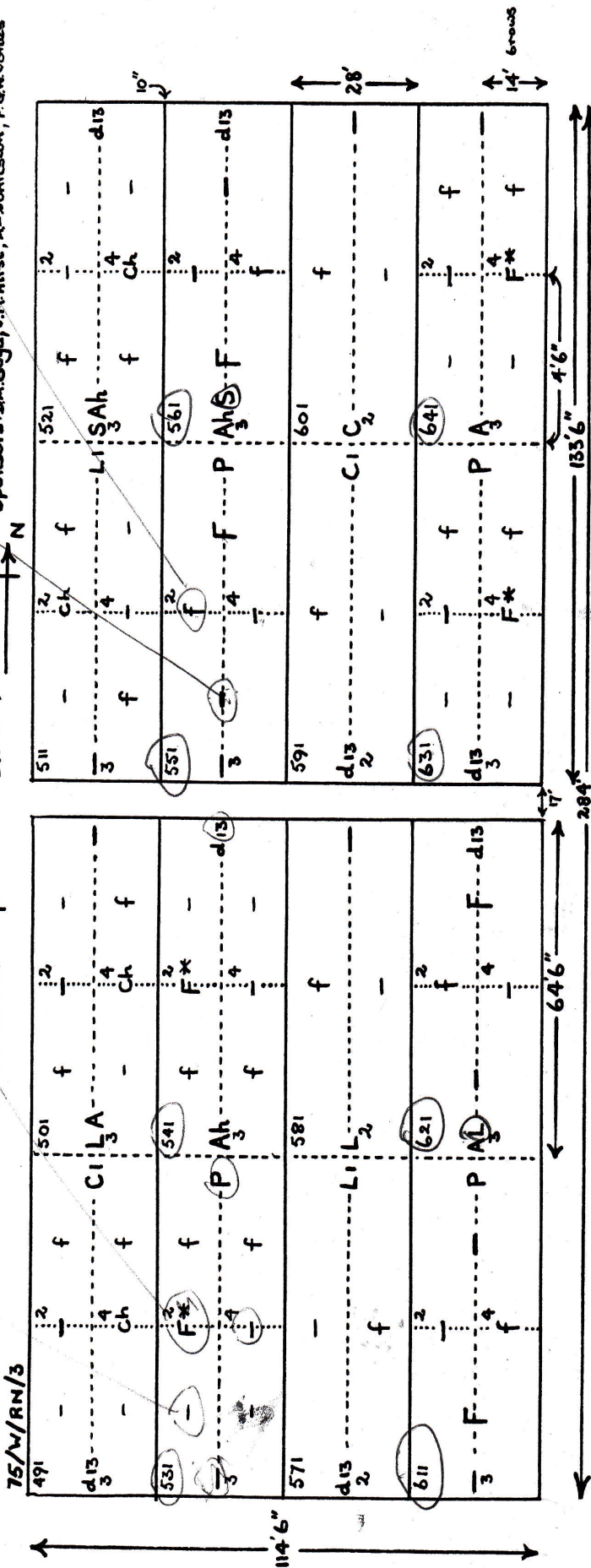
**ARABLE AND LEY ROTATION**

Block 4  
1st treatment crops

38th year

Stackyard D 1975

Sponsors: DA. Boyd, J.M. Hirst, A.E. Johnston, F. G. Jones



**SYMBOLS**

**Rotations**

3 years ARABLE A = Potatoes P, Barley B, Barley B.

Ah = Potatoes P, Barley 1/2\*, Hay H. Sown: 1 May

3 years LEY C = Red Clover cut for hay. Sown: 2 May

L = Ley Cut. sown 2 May

**TREATMENTS** per acre (hectare) Fumigants cumulative on 1970(\*)

and 1973 (f)

- None

F 200 lb (22.4 kg) Talone in autumn + 10 lb (11.2 kg) aldicarb in spring

Chloropicrin residues applied for potatoes 1970

- , Ch None, 400 lb (408 kg) chloropicrin

chloropicrin + aldicarb residues applied for 1st test crop potatoes 1973

- f None, 400 lb (408 kg) chloropicrin + 6 lb (6.7 kg) aldicarb.

FYM residues -, d13 None, FYM residues - last applied 1963.

**VARIETY** Potatoes - Maris Piper Planted: 5 May

**BASAL MANURING** per acre (hectare)

1730 lb (1939 kg) compound fertiliser (13:13:20)

**SUB-PLOT AREA** 14' x 30' = 0.0096 acre (0.0039 ha)



WOBURN ARABLE AND LEY ROTATION

Block 1 For Plot Treatments	2nd Test	Crop	Winter Wheat	See Separate Plan 201 B
17 d10	(A) B	19	(A) F	d10
21 d10	(SA) LLC1	23	(AC) LLC1*	d13
23 d13	(AhL) LLn1*	27	(LAb) LLn1	d13
29 d10	(C) Lc1	31	(L) LLn1	d13

Block 3 For Plot Treatments	1st Test	Crop	Winter Wheat	See Separate Plan 201 C
51 d14	(LA) LLC2	51	(SAH) LLn2	d14
53 d14	(Ah) B	55	(AhS) LLC2*	d14
57 d14	(L) LLn2	59	(C) Lc2	-
61 d14	(AL) LLn2*	63	(A) F	-

Block 5 For Plot Treatments	1st Test	Crop	Winter Wheat	See Separate Plan 201 D
65 d10	(L) LLn3	67	(Ah) O	-
69 d10	(AhL) LLn3*	71	(SA) LLn3	d10
73 d10	(A) O	75	(LAN) LLC3	-
77 d10	(AS) LLC3*	79	(C) Lc3	d10

59th year → N  
 Sponsors: ~~Barbey~~, K. Evans, A.E. Johnston, F.M. Jones, G.A. Salt.  
 SYMBOLS

From 1976 major revisions have been made: -  
 Previous Rotations: (R), (Ah), (C), (L), (S) not defined on this plan.  
 From 1976 AH Barley B, Barley S, Oats O.  
 A Follow F, Follow F, Oats O.  
 LC 3 years clover/grass ley (no N)  
 Ln 3 years all grass ley (with N)  
 LLC & LLn 3 year leys treated as above. \* = ploughed up in less than 8 years initially during phasing in.  
 Normally followed by Test Crops. Wheat and Barley (Wheat in 1976 to complete previous cycle).  
 NOTE: Lc & Ln 2 & 3 are all fresh sowings 1976.  
 To all crops: -, dn Residues of none v 15 tons/acre (88t/ha) FYM last applied n years ago.

BASAL MANURING per acre (hectare)

Barley - Julia. (dressed with abtimal) } 360B (400 kg) compound fertiliser @ 145 lb (65.3 kg)  
 Oats - Mamed @ 170 lb (77.1 kg) } (20:14:14) C.D. Sown: 23 Mar

ALL - grass ley

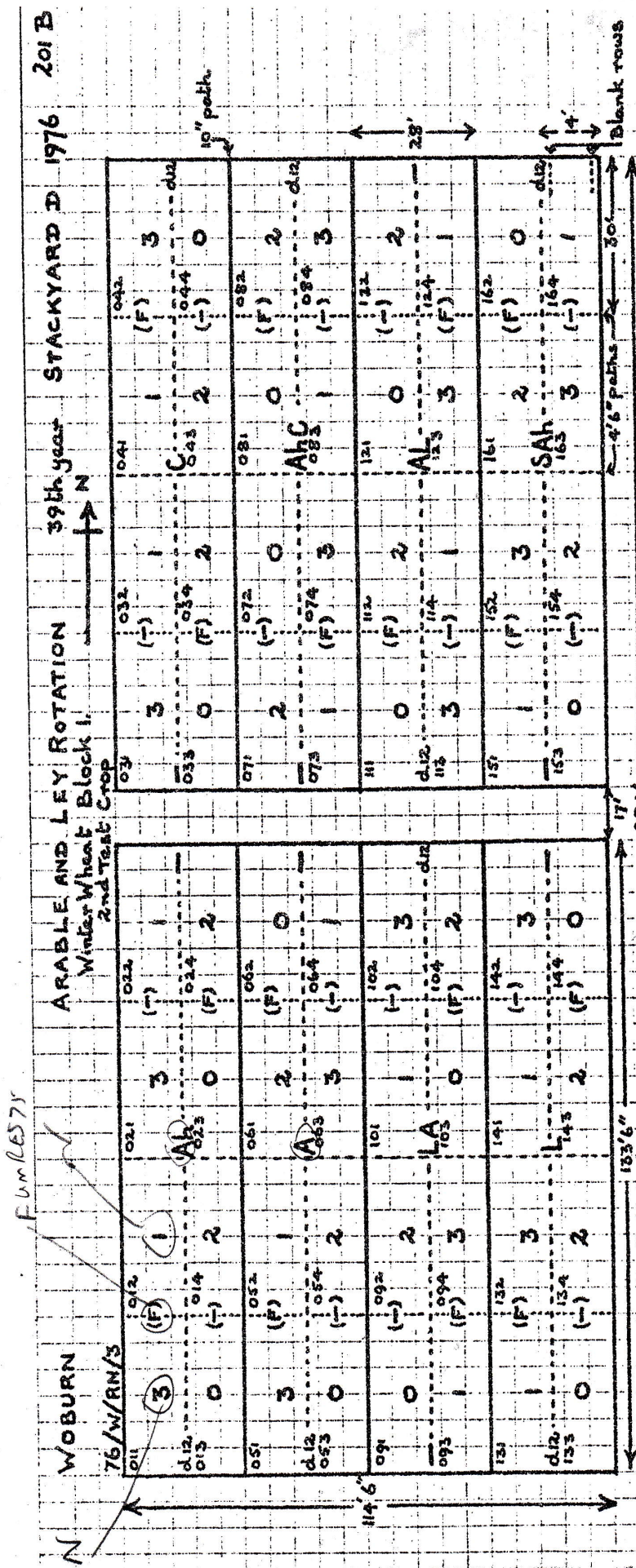
1st year: 75 kg (67 lb) N as Nitro-chalk 25, 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in the seedbed. 75 kg (67 lb) N, 48 kg (43 lb) K<sub>2</sub>O as (25:0:16) after each cut except the last.  
 2nd + years: 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in winter. 75 kg (67 lb) N, 48 kg (43 lb) K<sub>2</sub>O as (25:0:16) in spring and after each cut except the last.

Clover/grass ley - as Ln but omitting N. K per cut as muricide of potato.

1st year: 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in the seedbed. 48 kg (43 lb) K<sub>2</sub>O as Muricide of potato after each cut except the last.  
 2nd + years: 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in winter. 48 kg (43 lb) K<sub>2</sub>O as Muricide of potato in spring and after each cut except the last.

Leys drilled: 22 Apr.





**Nitrogen**  
 0, 1, 2, 3 None, 0.5, 1.0, 1.5 cat N (65, 126, 189 kg) as Nitro-chalk 25

**BASAL MANURING per acre (hectare)**  
 270 lb (303 kg) of compound fertiliser (0:20:20) C.D.

**VARIETY**  
 Cappelle

**Sown: 15 Oct at: 190 lb (213 kg)**

**PLOT AREA**  
 14' x 30' = 0.0096 acre (0.0039 ha)

**Harvested 9'4" x 30' = 0.0064 acre (0.0026 ha)**

**TREATMENTS per acre (hectare)**

**FYM residues**  
 -, d.12 None, FYM residues - last applied 1965

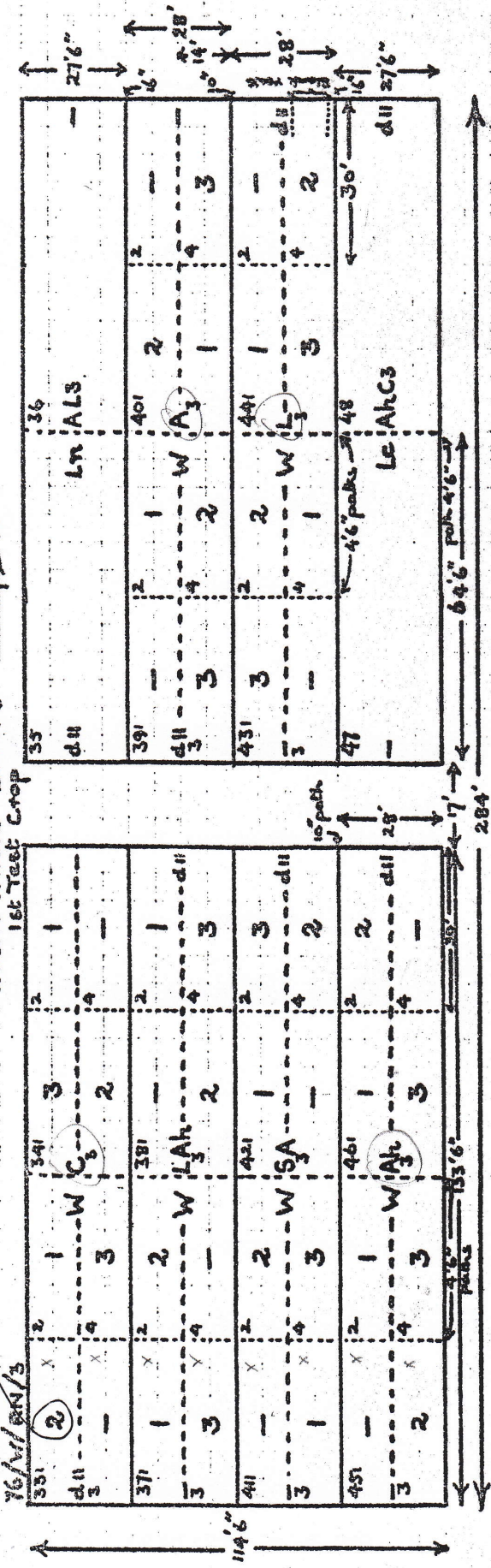
**FUMIGANTS - applied for potatoes 1975**  
 None.  
 200 lb (22.4 kg) 'Telone' in autumn +  
 10 lb (1.12 kg) aldicarb in spring



WOBURN 1976/1977

ARABLE AND LEY ROTATION 39th year STACKYARD 'D' 1976 201 C

Winter Wheat Block 3 → N



TREATMENTS per acre (ha/acre)

FYM residues  
- d 11 None, FYM residues - last applied 1966

CROPPING  
W Winter Wheat Variety: Cappella Sown: 10 Nov (dressed Friti Bull fly & fungicide seed dressing)  
LN Ley with N } sown in spring 1976 without  
LC Ley with Clover } ploughing previous L&R C3

Nitrogen to Winter Wheat  
1, 2, 3 None, 0.5, 1.0, 1.5 cat N (63, 126, 189 kg) as Nitro-chalk 25

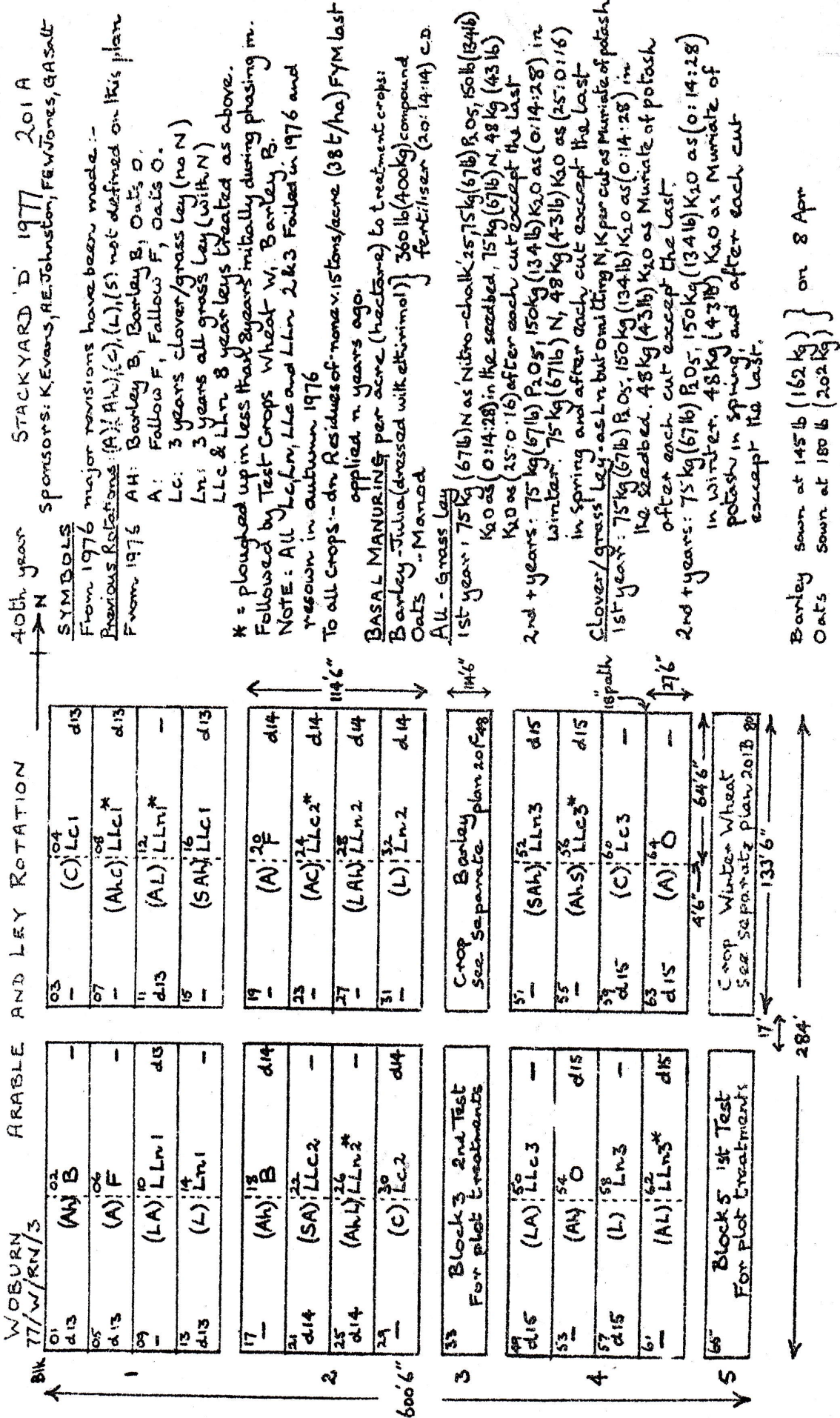
BASAL APPLICATION to Winter Wheat only  
Aldicarb at 10kg/ha (9lb/acre)

BASAL MANURING per acre (ha/acre)

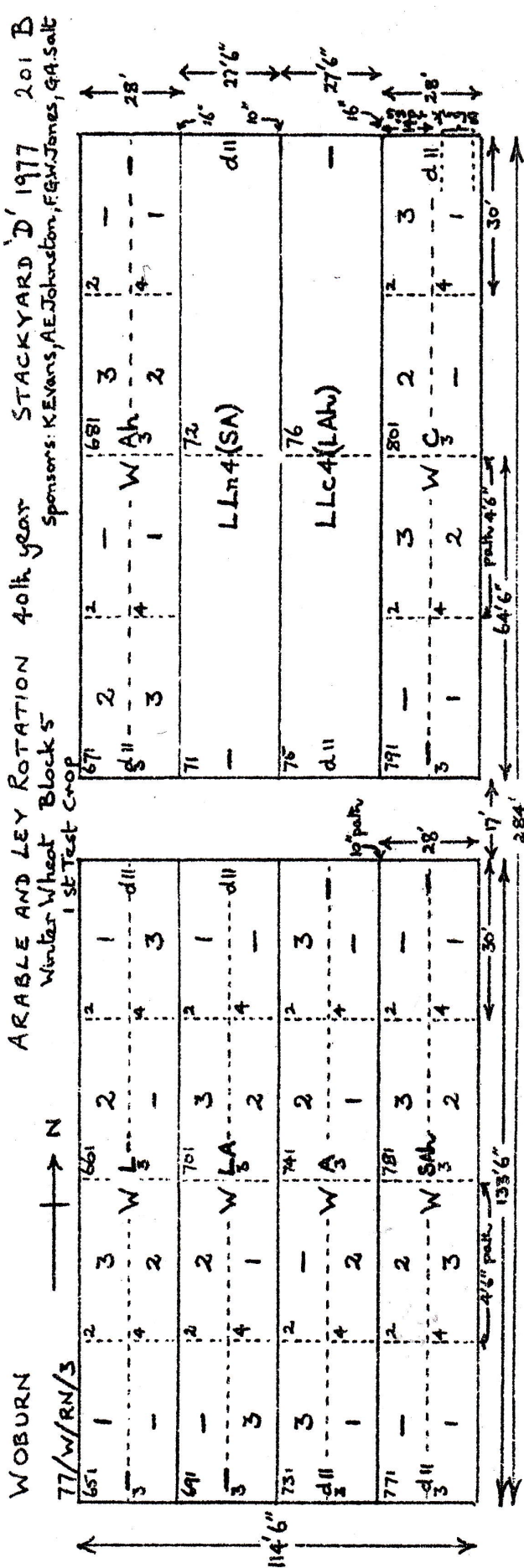
Winter Wheat: 270 lb (300kg) compound fertilizer (0:20:20) C.D.  
Ley with N: 490 lb (538kg) of (0:14:28) 500 lb (550kg) of (25:0:16) after + 265 lb (300kg) of each cut except the last.  
Ley with Clover: Nitro-chalk 25 folay 60 lb (67kg) of muriate of with N only in its seedbed, patch after each cut except the last.

PLOT AREA  
Winter Wheat: 14' x 30' = 0.0096 acre (0.0029 ha)  
Harvested: 9'4" x 30' = 0.0064 acre (0.0026 ha)  
Ley with N and  
Ley with Clover: 2 1/2' x 64'6" = 0.0407 acre (0.0165 ha)









**TREATMENTS per acre (hectare)**  
 FYM residues  
 - d11 None, FYM residues - last applied 1967

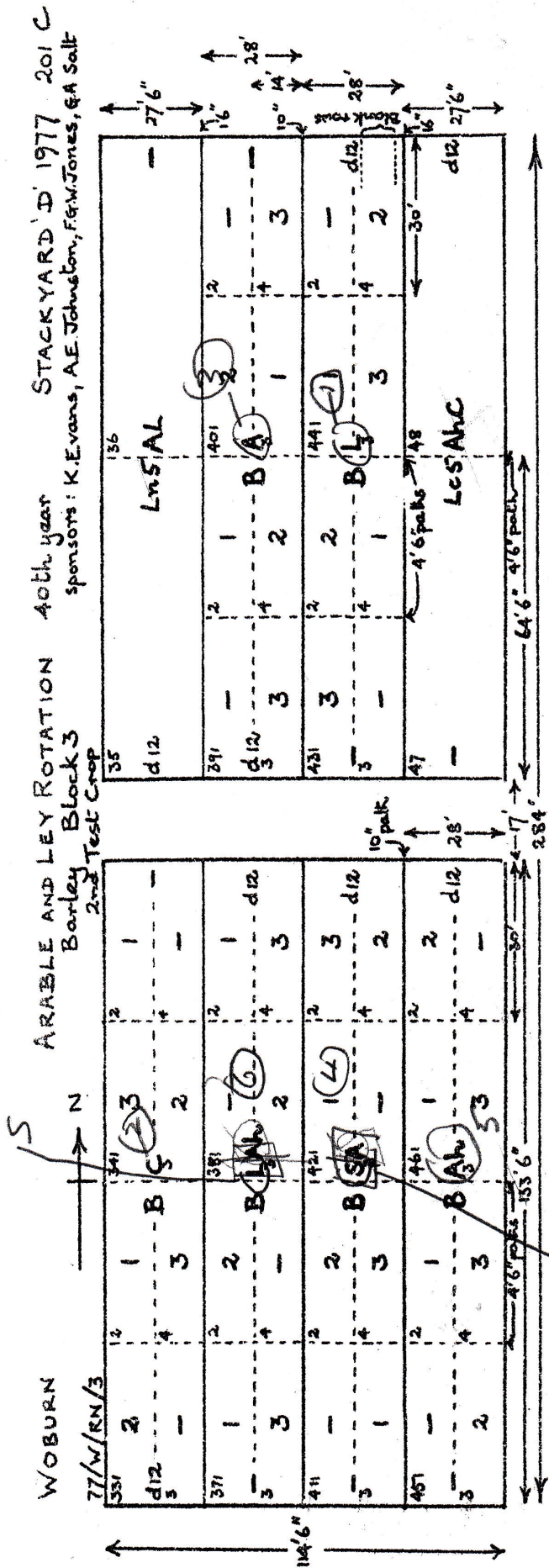
**Cropping**  
 Winter wheat Variety: Cappelle, (dressed)  
 Anti Bulb-fly & Fungicide seed dressing.  
 Sown at 190B (213kg Date: 24 Nov)  
 Ley with N resown 30lb (34kg)  
 Ley with Clover } 15 Oct 35lb (39kg)

**Nitrogen to Winter wheat**  
 - 1, 2, 3 None, 0.5, 1.0, 1.5 cut N  
 (63, 126, 189kg) N as Nitro-chalk '25

**STANDARD APPLICATION to winter wheat only**  
 Aldicarb at 10kg/ha (9lb/acre) applied: 24 Nov

**BASAL MANURING per acre (hectare)**  
 Winter Wheat: 300kg (270lb) compound fertiliser (0.20:20) c D.  
 Ley with N 74kg (66lb) N, 4kg (42lb) K<sub>2</sub>O as (25:0:16) applied in the Spring and after each cut except the last.  
 Ley with clover: 48kg (43lb) K<sub>2</sub>O as muriate of potash in the Spring and after each cut except the last.

**PLOT AREA**  
 Winter Wheat: 14' x 30' = 0.0096 acre (0.0039 ha)  
 Harvested: 9'4" x 30' = 0.0064 acre (0.0026 ha)  
 Ley with N and  
 Ley with clover: 27'6" x 64'6" = 0.0407 acre (0.0165 ha)





41st year → N  
 STACKYARD D 1978 201A  
 Sponsors: A.E. Johnston, F.G.W. Jones, G.A. Salt

**SYMBOLS**

From 1976 major revisions have been made:-

Previous Rotations: (A), (Ah), (C), (L), (S) not defined on this plan  
 From 1976 AH: Barley B, Barley B, Oats O.  
 A: Follow F, Follow F, Oats O.  
 L: 3 years clover/grass ley (no N)  
 Ln: 3 years all grass ley (with N)  
 LLC & LLn 8 year leys treated as above.

\* = ploughed up in less than 8 year initially during phasing  
 Followed by Test Crops Wheat W, Barley B.

NOTE: All Lc, Ln, LLC and LLn 2 & 3 failed in 1976 and  
 resown in autumn 1976.

To all crops: - dr. Residues of none v.15 tons/acre (38t/ha) FYM  
 last applied n years ago.

**BASAL MANURING** per acre (hectare) to treatment crops:  
 Barley - Porthos (dressed with ethinmal), 360lb (400kg) compound  
 Oats - Manod  
 fertilizer (20:14:14) CD

All - Grass ley  
 1st year: 75kg (67lb) N as Nitro-chalk, 25, 75kg (67lb) P<sub>2</sub>O<sub>5</sub>, 150kg (134lb)  
 K<sub>2</sub>O as (0:14:28) in the seedbed, 75kg (67lb) N, 48kg (43lb) K<sub>2</sub>O  
 as (25:0:16) after each cut except the last.

2nd + years: 75kg (67lb) P<sub>2</sub>O<sub>5</sub>, 150kg (134lb) K<sub>2</sub>O as (0:14:28) in winter  
 75kg (67lb) N, 48kg (43lb) K<sub>2</sub>O as (25:0:16) in spring  
 and after each cut except the last.

Clover/grass ley as Ln but omitting N. K per cut as Muriate of potash  
 1st year: 75kg (67lb) P<sub>2</sub>O<sub>5</sub>, 150kg (134lb) K<sub>2</sub>O as (0:14:28) in the  
 seedbed, 48kg (43lb) K<sub>2</sub>O as Muriate of potash after  
 each cut except the last.

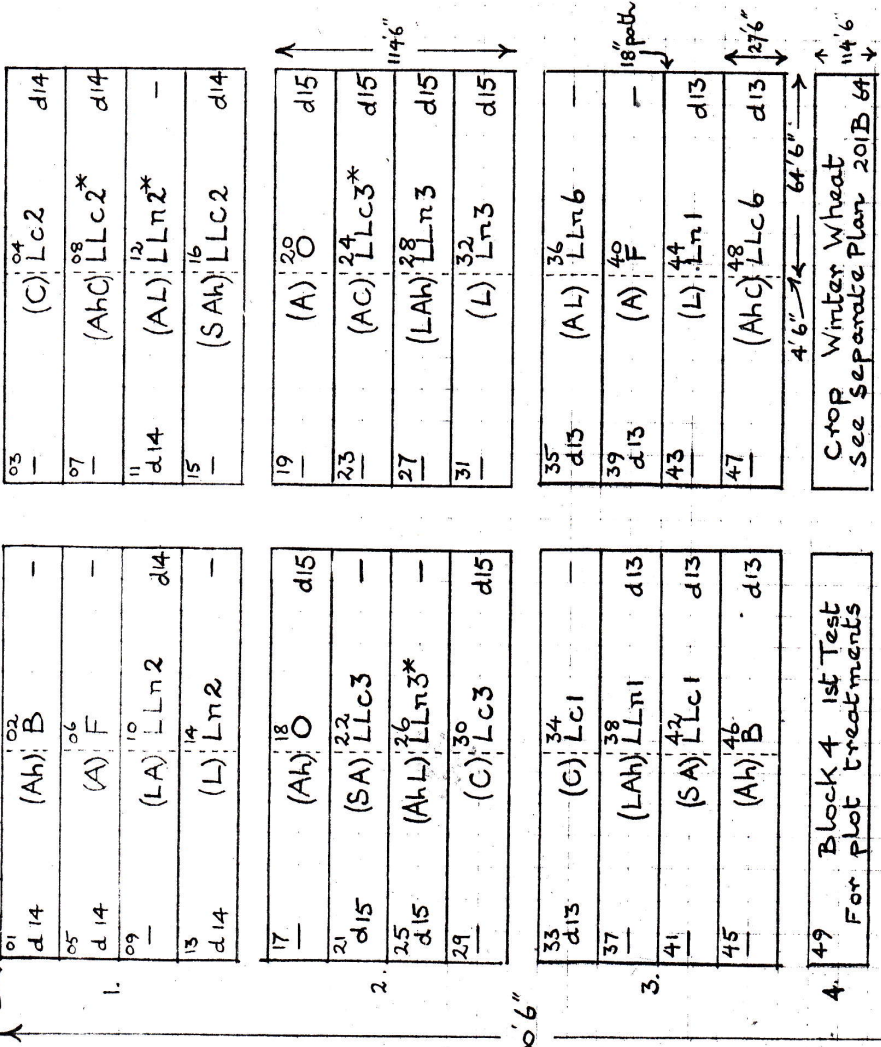
2nd + years: 75kg (67lb) P<sub>2</sub>O<sub>5</sub>, 150kg (134lb) K<sub>2</sub>O as (0:14:28)  
 in winter, 48kg (43lb) K<sub>2</sub>O as Muriate of potash  
 in spring, and after each cut except the last.

Barley sown at 145lb (162kg) Date: Redrilled 7 Apr  
 Oats sown at 180lb (202kg) Date: 13 Mar

**ARABLE AND LEY ROTATION**

**WOBUEN**

BK 78/W/RN/3



Crop Winter Wheat  
 See Separate Plan 201B 64

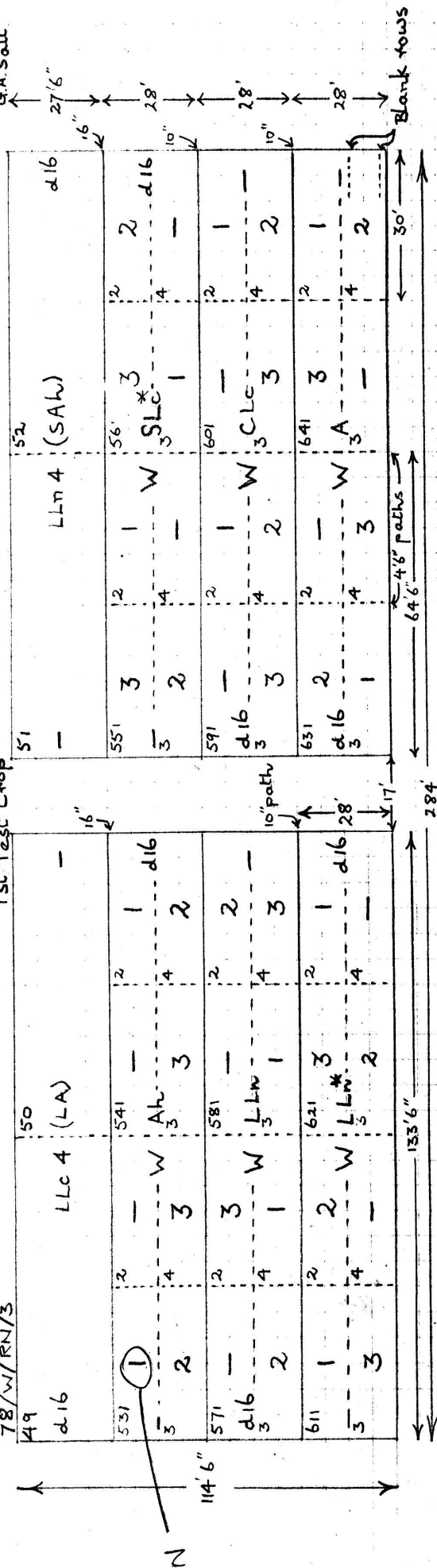
Crop Barley Plan 201C 80

17' ← → 284'

← → 133'6"

WOBURN 78/W/RN/3  
 ARABLE AND LEY ROTATION 41ST year  
 Winter Wheat Block 4  
 1st Test Crop

STACKYARD 'D' 1978 201B  
 Sponsors: KEVANS, A.E. Johnston, F.G.W. Jones,  
 G.A. Salt



TREATMENTS per acre (hectare)  
 - d16 None, FYM residues - last applied 1962

CROPPING Winter wheat Variety: Cappella  
 Sown at: 1906 (213kg) Date: 25 Oct

Other crop symbols - see main plan

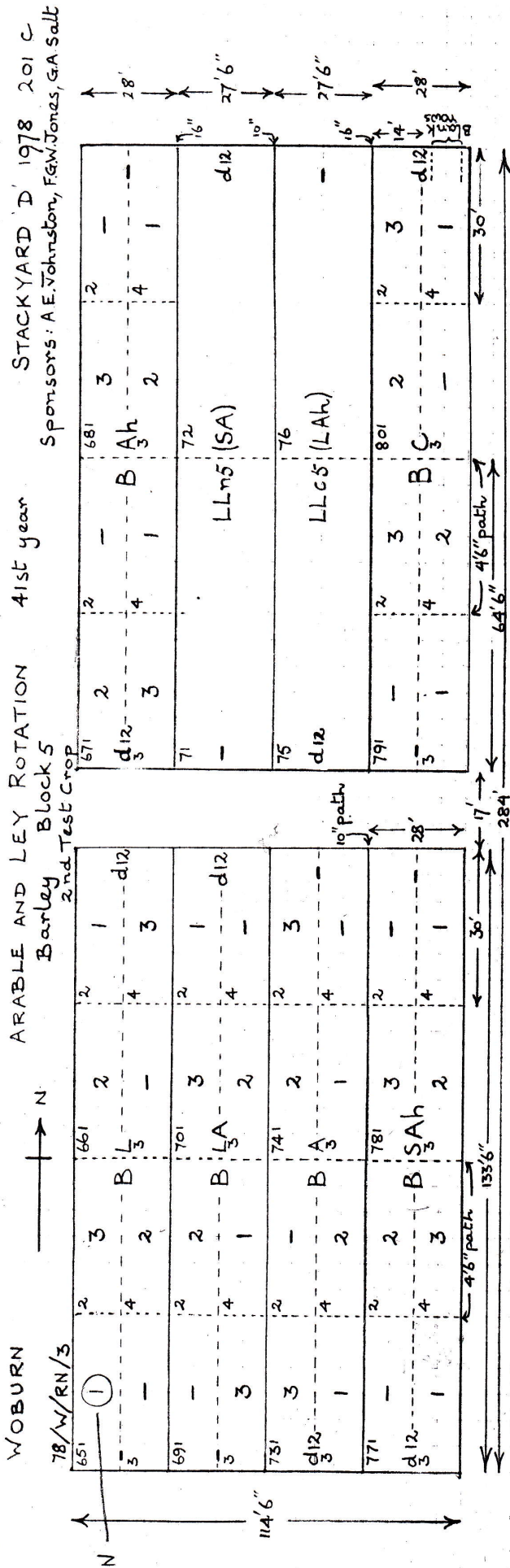
Nitrogen to Winter wheat  
 - 1, 2, 3 None, 0.5, 1.0, 1.5 cwt N  
 (63, 126, 189 kg) N as Nitro-chalk 25

STANDARD APPLICATION to winter wheat only  
 Aldicarb at 10kg/ha (9lb/acre) applied by farm

BASAL MANURING per acre (hectare)  
 Winter Wheat: 314 kg (280 lb) compound fertiliser (0:20:20) CD  
 Ley with N: 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in winter  
 75 kg (67 lb) N, 48 kg (43 lb) K<sub>2</sub>O as (25:0:16) applied in spring and after each cut except the last.  
 Ley with clover: 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in winter  
 48 kg (43 lb) K<sub>2</sub>O as muriate of potash in the spring and after each cut except the last.

PLOT AREA  
 Winter Wheat: 14' x 30' = 0.0096 acre (0.0039 ha)  
 Harvested: 9'4" x 30' = 0.0064 acre (0.0026 ha)  
 Ley with N and  
 Ley with clover: 27'6" x 64'6" = 0.0407 acre (0.0165 ha)





TREATMENTS per acre (hectare)

FYM residues  
 - 1, d12. None, FYM residues - last applied 1967

Cropping

B Barley Variety: Porthos (dressed with abtirimol)  
 Sown at: 145 lb (162 kg) Date: 3 Apr  
 LLn5 Ley with N Resown  
 LLc5 Ley with clover } 13 Oct 1976

Nitrogen to Barley

- 1, 2, 3 Nema, 0.4, 0.8, 1.2 cut N/acre  
 (50, 100, 150 kg/ha) N as Nitro-chalk 25

STANDARD APPLICATION to Barley only

A dicarb at 10 kg/ha (9 lb/acre)

BASAL MANURING per acre (hectare)

Barley: 270 lb (300 kg) compound fertiliser (0:20:20) C.D.  
 Ley with N: 75 kg (67 lb) N, 48 kg (43 lb) K<sub>2</sub>O as (25:0:16) applied in the  
 Spring and after each cut except the last.

Ley with clover: 48 kg (43 lb) K<sub>2</sub>O as muriate of potash in the spring  
 and after each cut except the last.

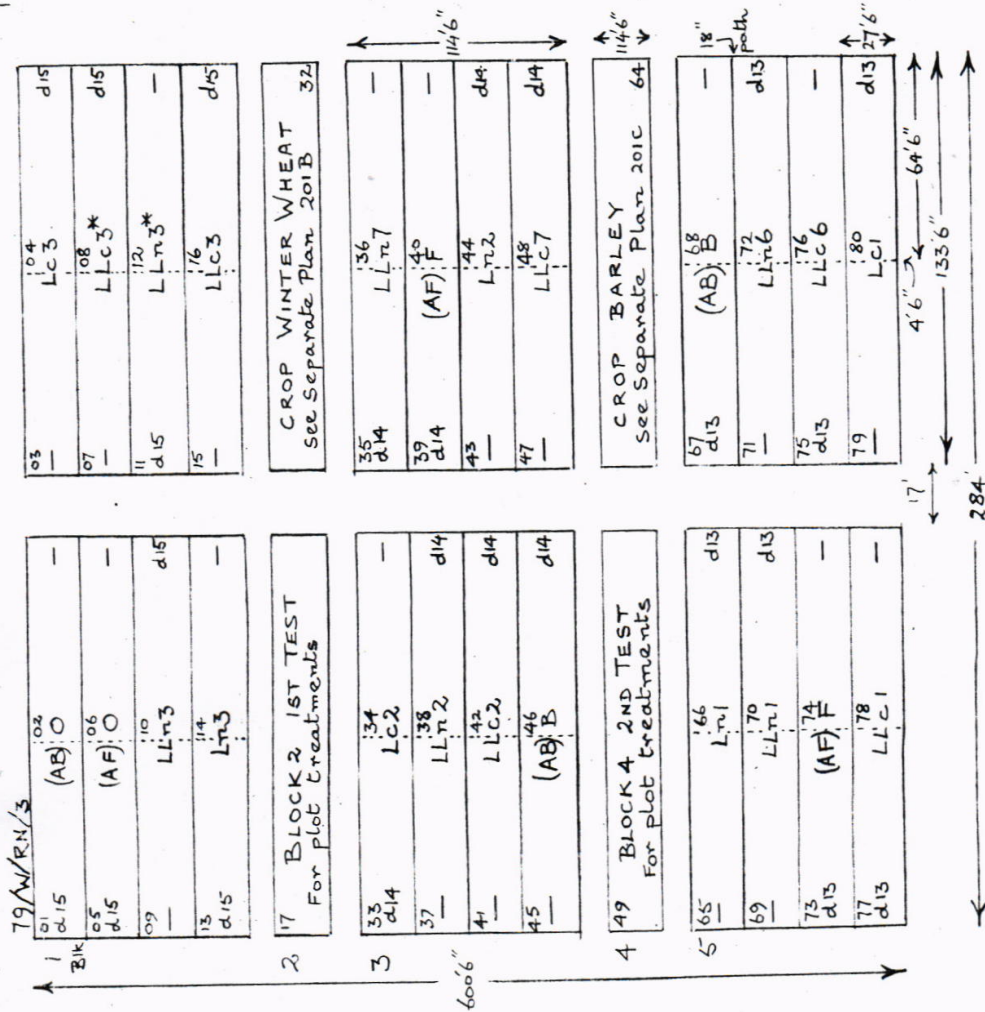
PLOT AREA

Barley: 14' x 30' = 0.0096 acre (0.0039 ha)  
 Harvested: 9'4" x 30' = 0.0064 acre (0.0026 ha)  
 Ley with N and  
 Ley with clover 27'6" x 64'6" = 0.0407 acre (0.0165 ha)

WOBURN  
42nd year  
N

ARABLE AND LEY ROTATION

STACKYARD D 1979 201A  
Sponsors: AE. Johnston, FGW Jones, GA. Salt.



SYMBOLS

3 year treatment crops before w.wheat (1st), Barley (2nd) test crops  
 AB: Barley B, Barley B, Oats O.  
 AF: Follow F, Follow F, Oats O.  
 LC: 3 years clover/grass ley (No N)  
 Ln: 3 years all grass ley (with N)  
 8 year Leys  
 LLC: clover/grass ley (No N)  
 LLn: All grass ley (with N)  
 \* = ploughed up in less than 8 years initially, during phasing in.  
 To all crops: - d n Residues of none v. 15 tons/acre (38 t/ha)  
 FYM last applied n years ago.

VARIETIES

Barley (dressed with ethirimol): Porthos sown at 140 lb (157 kg) Date: 3 May  
 Oats - Manrod Sown at Date:

BASAL MANURING per acre (hectare) to treatment crops

Barley and Oats 360 lb (400 kg) compound fertiliser (20:14:14) c.d.

ALL Grass Ley

1st year: 75 kg (67 lb) N as Nitro-chalk, 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in the seedbed, 75 kg (67 lb) N, 48 kg (43 lb) K<sub>2</sub>O as (25:0:16) after each cut except the last.  
 2nd + years: 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in winter 75 kg (67 lb) N, 48 kg (43 lb) K<sub>2</sub>O as (25:0:16) in spring, and after each cut except the last.

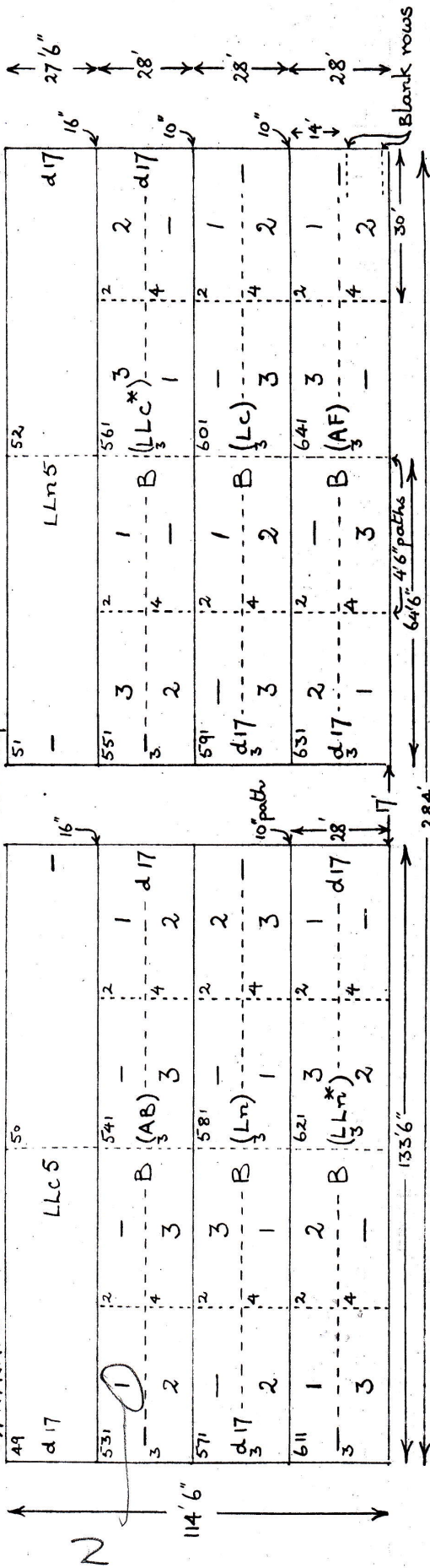
Clover/grass ley

1st year: 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in the seedbed, 48 kg (43 lb) K<sub>2</sub>O as muriate of potash after each cut except the last.  
 2nd + years: 75 kg (67 lb) P<sub>2</sub>O<sub>5</sub>, 150 kg (134 lb) K<sub>2</sub>O as (0:14:28) in winter, 48 kg (43 lb) K<sub>2</sub>O as muriate of potash in spring, and after each cut except the last.





WOBURN ARABLE AND LEY ROTATION 42nd year STACKYARD D 1979 201C  
 Barley Block 4 Sponsors: A.E. Johnston, F.G.W. Jones, G.R. Salt  
 2nd Test Crop



**TREATMENTS per acre (hectare)**  
 -, d17 None, FYM residues - last applied 1962

**Cropping**  
 B Barley Variety: Perthos (dressed with ethirimol)  
 Sown at: 40lb (157kg) Date: 3 May  
 8 year Grass/Ley with N } Resown 13 Oct 1976  
 8 year Grass/clover Ley, No N }  
 3 year treatment cropping: Barley, Barley, Oats  
 3 year treatment cropping: Fallow, Fallow, Oats  
 Ley with N } Previous alternating rotations.  
 Ley with clover (ultimately 8yr leys-treated as 3yr leys) during phasing in:  
 3 year grass/ley with N  
 3 year grass/clover Ley, No N.

**Nitrogen to Barley**  
 -, 1, 2, 3 None, 0.4, 0.8, 1.2 cut N/acre  
 (None, 50, 100, 150 kg/ha) N as Nitro-chalk 26

**STANDARD APPLICATION to Barley only**  
 Aldicarb at 10kg/ha (9lb/acre)

**BASAL MANURING per acre (hectare)**  
 Barley: 270lb (300kg) compound fertilizer (0:20:20) C.D.  
 Ley with N: 75kg (67lb) N, 48kg (43lb) K<sub>2</sub>O as (25:0:16) applied in the Spring and after each cut except the last  
 Ley with clover: 48kg (43lb) K<sub>2</sub>O as muriate of potash in the Spring and after each cut except the last.

**PLOT AREA**  
 Barley = 14' x 30' = 0.0096 acre (0.0039 ha)  
 Harvested = 9' 4" x 30' = 0.0064 acre (0.0026 ha)  
 Ley with N and  
 Ley with clover 27' 6" x 64' 6" = 0.0407 acre (0.0165 ha)