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ROTHAMSTED
RESEARCH

Collection of Plans for the Woburn Ley-arable Experiment

[Full Table of Content](#)

WOBURN ARABLE AND LEY ROTATIONS - STATIONARY FIELD EXPERIMENT

Year	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	
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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 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 K₂O 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	Lu1	Lu, Lu	34
37	Lu1	L, Ah D3	38
41	L1	Lu, A D3	42
45	P	Ah, Ah, D3	46
3	Lu2	Lu, Lu D4	4
7	R	Ah, Lu D4	8
11 D4	R	A L	12
15	L2	Lu, Ah D4	16
19	C	A, A, C D5	20
23	H	A, Lu D5	24
27	Bare (Lu3)	L, Ah D5	28
31	L3	L, L D5	32
35 D3	P	Ah, L	36
39 D3	P	A, A	40
43	L1	L, L D3	44
47	P	A, Lu D3	48

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

65	L	L	L	D2	66
69	L	A	L	D2	70
73 D2	L	A	L	4	74
77 D2	Lu	Ah	3	Lu	78
67 D2	3	Ah, Ah	3	68	
71	A	L	D2	72	
75 D2	Ah	Lu	2	76	
79	Lu	Lu	D2	80	

Block 4 Test crop SUGAR BEET

59 DN	50	- NK	59 W	- N -	52 DNK
X DNK	Lu	- K	X	- NK	Ah, L D -
Y D	-	- N	Y	-	- D - K -
Z D-K	-	-	Z	- K -	- z D N -
55 - NK	54 W	D-K	55 W	- K -	56 W DNK
X - K	Ah	D -	X	- N -	A D N -
Y -	Ah, D	NK	Y	- NK	A D - K
Z - N	-	- D N -	Z	-	- z D -
57 DNK	58 W	- K	57 W	D - K	60 W - K
X D	-	-	X	D N	Lu - NK
Y D-K	L	- NK	Y	D -	- NK
Z D N	-	- N -	Z	D NK	- z - N -
61 - NK	62 W	D -	61 W	D -	64 W - K
X -	L, Ah	DNK	X	D N	- A A - N -
Y -	-	- D N -	Y	D - K	- - -
Z - N	-	- D - K	Z	D NK	- z - 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 K₂O p.a as muriate of potash } basal NPK

1	D5	H	Ah,Ah	2
5	D5	C	A,A	6
9	D5	Lu3	L,A D5	10
13	D5	L3	L,L	14

17	Block 2	TEST		
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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,PLu		50
53	Ah	Ah D2		54
57	D2	L,L		58
61	L	Ah D2		62

65	L1	L,L D3		66
69	Lul	L,A D3		70
73	D3	A,A		74
77	D3	Li	Lu,Ah	78

3	Lu3	Lu,Lu D5	4	
7	C	Ah,Lu D5	8	
11	D5	H	A,L D5	12
15	L3	Lu,Ah D5	16	

32	CROP	Sugar beet	
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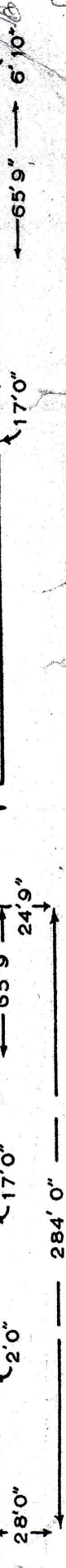
35	D4	R	Ah,L	36
39	D4	R	A,A	40
43	L2	L,L D4		44
47	R	A,Lu D4		48

51	Ah	L D2		52
55	Lu	A D2		56
59	D2	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	Lul	Lu,Lu D3		80

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19	N	N		20	D	N	-
21	X						D
22	Y						D
23	Z						D
24	X						D
25	Y						D
26	Z						D
27	X						D
28	Y						D
29	Z						D
30	X						D
31	Y						D
32	Z						D
33	X						D
34	Y						D
35	Z						D



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 K₂O 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	73
73	R A, A	77
77	L2 Lu, Ah	81

TEST CROP

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

2 Reps of A rotation 56x40
 56x40 = 2240
 65x40 = 2600

WOBURN Anable and Ley Rotations. Code letter G. STACKYARD FIELD 21st year 1961

TREATMENT SYMBOLS

Rotations: A, Ak, Lu, L

Grasses: (R) Barley, Ryegrass, Ryegrass (2 cuts), Ryegrass (1/2 season), Ryegrass (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. N, K: 0.72 cut N, 0.9 cut K in addition to basal

BARLEY

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

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

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

17	P	AL	AL	D3	18
21	P	A	L	A	22
25	L1	L	A	A	26
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	L2	L	AL	D4	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

Block 3 TEST

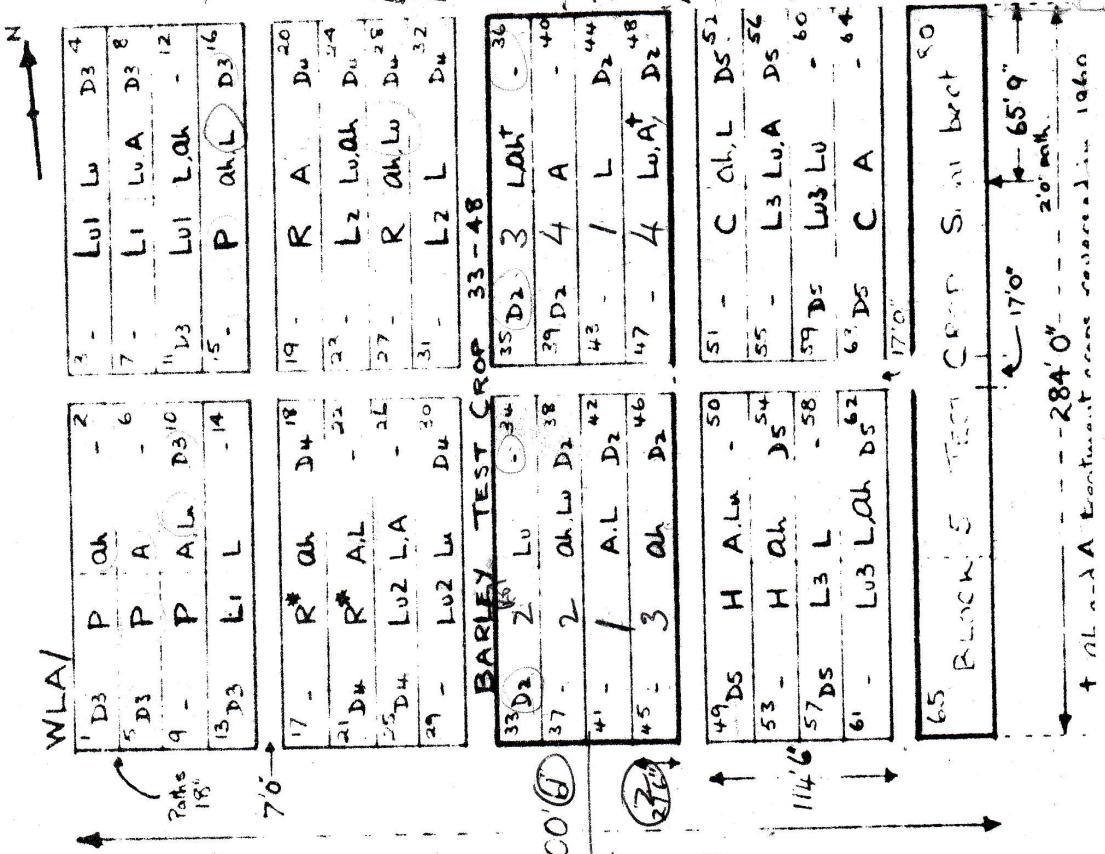
35	D	--	--	NK	--	NK
39	DK	Lu	L	--	--	--
43	DN	Lu	Lu	--	--	--
47	DNK	--	--	N	--	--
51	--	N	--	DNK	--	--
55	--	AL	L	DN	--	--
59	--	AL	L	--	--	--
63	--	N	--	D	--	--
67	--	N	--	D	--	--
71	--	KA	L	D	--	--
75	--	--	--	DNK	--	--
79	--	NK	--	DN	--	--
83	--	K	--	DN	--	--
87	--	N	--	AL	DNK	--
91	--	NK	--	D	--	--

CROP Sugar Beet

35	D	-	K	--	NK			
39	DN	--	L	--	AL	KA		
43	Y	D	--	--	--	--		
47	Z	DNK	--	--	--	--		
51	39	D	--	40	--	N		
55	DN	--	A	--	NK	--		
59	DNK	--	A	--	--	K		
63	D	-	K	--	--	--		
67	43	--	NK	44	--	D	-	K
71	--	--	--	L	--	--	--	--
75	--	--	--	L	--	--	--	--
79	--	--	--	--	--	--	--	--
83	--	--	--	--	--	--	--	--
87	--	--	--	--	--	--	--	--
91	--	--	--	--	--	--	--	--

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

WOBURN Arable and Ley Rotations

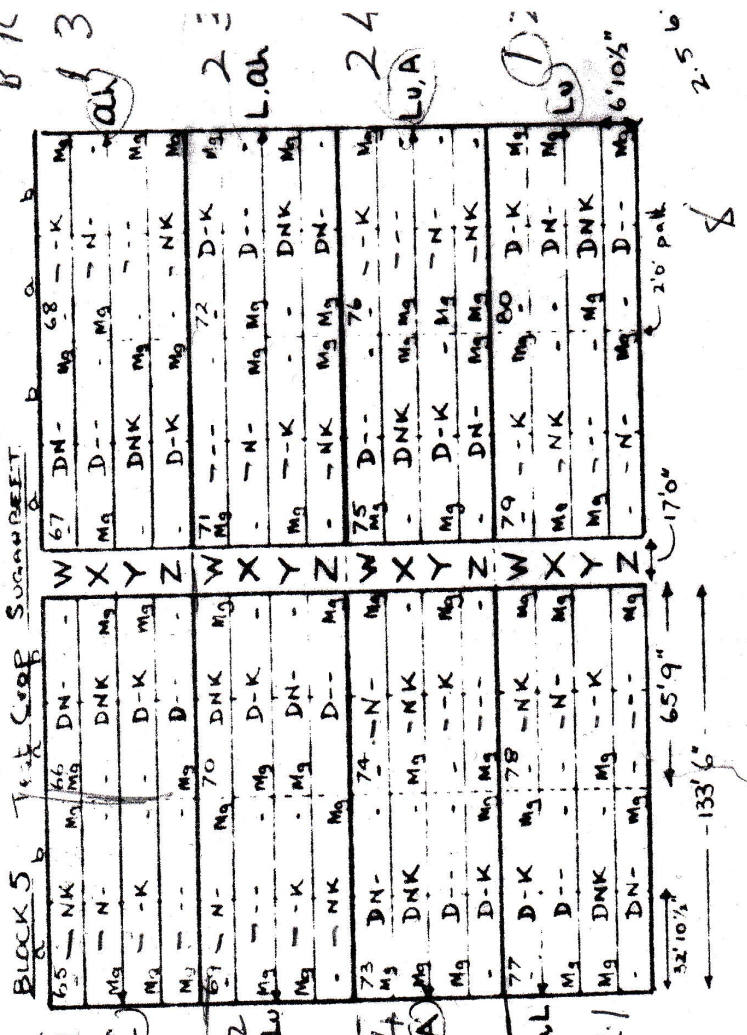


GREENFIELD V.L.A. STACKYARD 25th year 1962

CROP ROTATIONS (3 years treatment crops, 2 years test crops)
 3 year Leys
 1 GRASS } LUCERNE } POTATOES } ARABLE CROPS }
 2 LEY } FOR } RYE }
 3 GRATED } HAY } CARROTS }
 4 } } } SUGARBEET }
 5 } } } BARLEY } TESTING DUNG N.K. Mg

TEST CROPS

Note: A single crop rotation (12 Lu) is followed on 4 plots per block. Arable and Ley rotations alternate on remaining 4 plots (Lu, A). D Dung at 15 ton per acre to sugar-beet. Da, Dm, Ds Dung residues in 2nd, 3rd, 4th yr. N 0.72 cut N as Nitrochalk 21 K 0.9 cut K2O as nitrate of potash. Mg 60 lb manganese sulphate per acre. All crops receive basal fertilizers.



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WOBURN Arable and Ley Rotations

STACKYARD 26th year 1963

WLA/

TREATMENT CROPS

- 1 Potatoes (P)
- 2 Rye (R)
- 3 Carrots (C)
- 4 Potatoes (P)
- 5 Rye (R)
- 6 Hay (H)
- 7 Lucerne cut for hay
- 8 Ley grazed.

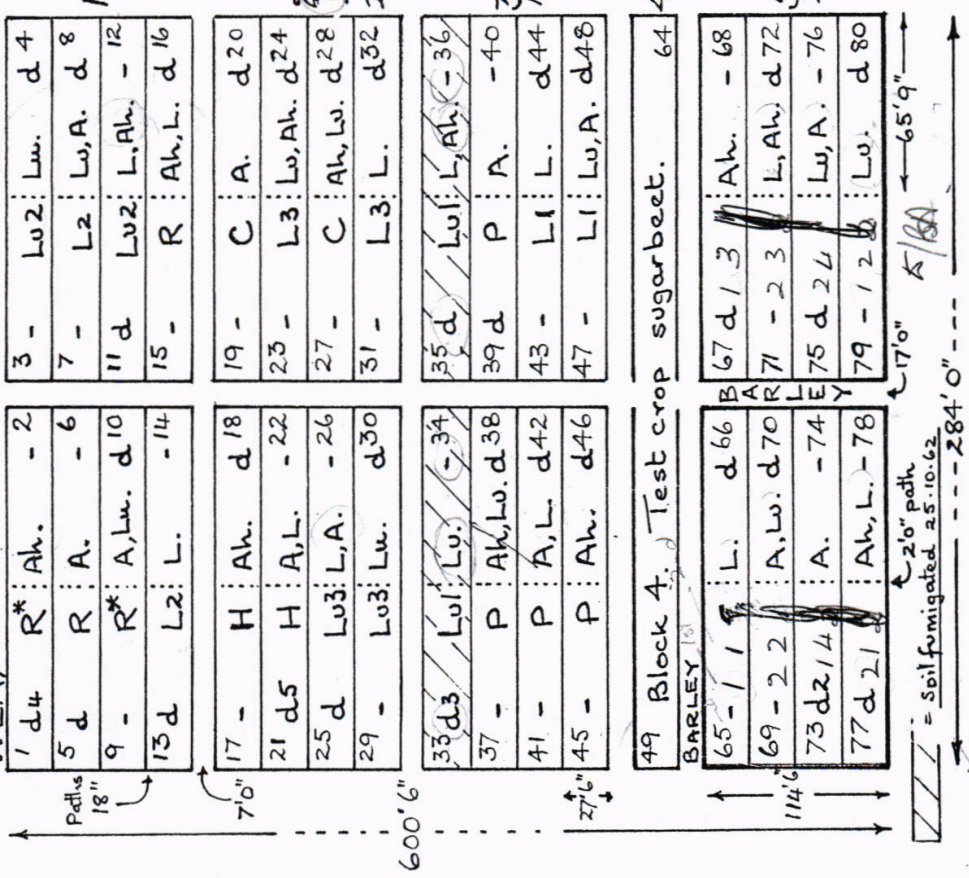
SYMBOLS

- Rotations: 3 years Arable (A)
- Ah Potatoes (P)
- Rye (R)
- Carrots (C)
- Hay (H)
- 3 years Ley (L)
- Lucerne cut for hay
- Ley grazed.

Test Crops: SUGAR BEET, BARLEY. (In 4th and 5th year)

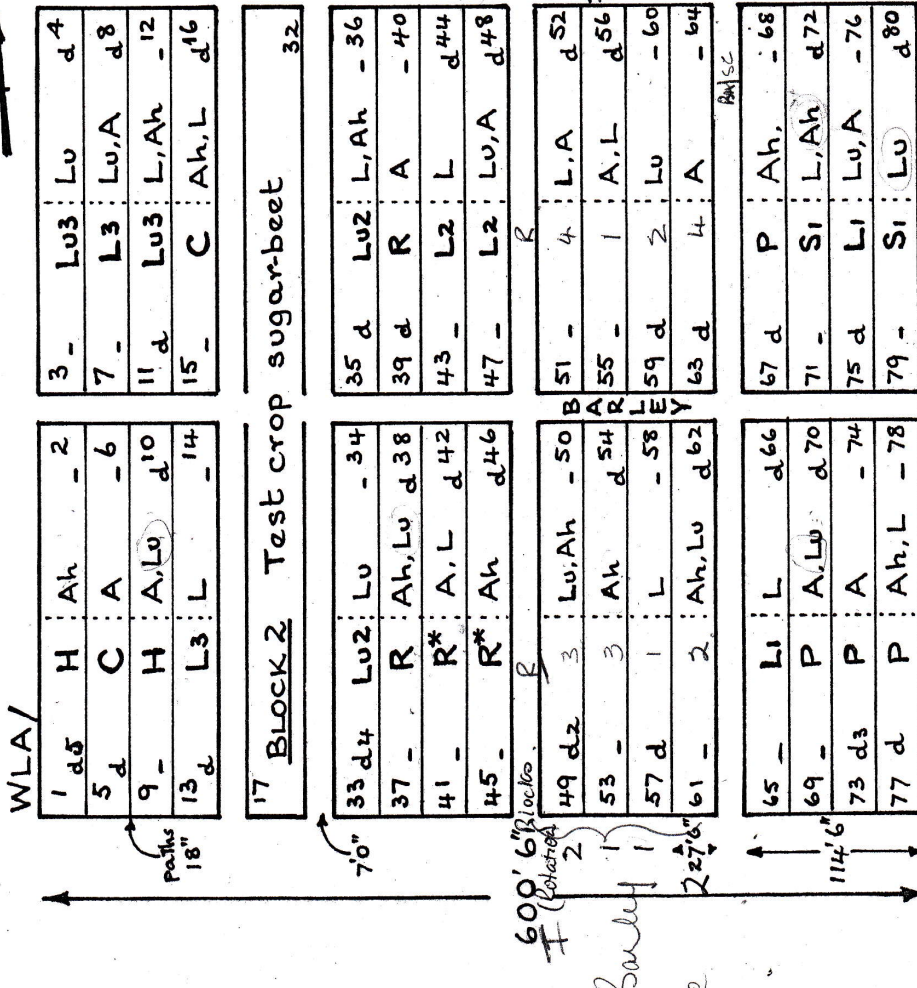
TREATMENTS TO SUGAR BEET
 D FYM at 15 tons per acre [d = FYM residuals]
 N 0.72 cut N per acre as 'Nitro-Chalk 21'
 K 0.9 cut K₂ per acre as muriate of potash.
 Mg 500lb Magnesium sulphate per acre.

BLOCK 4 TEST CROP SUGAR BEET.



WOBURN Arable and Ley Rotations

STACKYARD 27th year. 1964



SYMBOLS

Rotations:
 3 years ARABLE A Potatoes (P) Rye (R) Carrots (C)
 Ah Potatoes (P) Rye (R) Hay (H)
 3 years LEY Lu Lucerne cut for hay. s sainfoin
 L Ley grazed.

TEST CROPS: Sugar-beet, Barley (in 4th and 5th year)

TREATMENTS TO SUGAR BEET. per acre.
 -D None, 15 tons Farmyard manure. (d = FYM residuals)
 -N 0.35, 0.7 cwt N after 'L' and 'Lu' } N as Nitro-Chalk 2:1
 0.7, 1.05 cwt N after 'A' and 'Ah' }
 -K None, 0.9 cwt K₂O as muriate of potash.
 To sub-plot (Aw, b, etc) P None, 1.5 cwt P₂O₅ as super.

BLOCK 2 Test Crop Sugar-beet.

17A	a	b	a	b	a	b	a	b
P	-	NK	-	P	-	NK	-	P
P	-	NK	-	P	-	NK	-	P
P	-	NK	-	P	-	NK	-	P
21, P	D	NK	-	22	-	NK	P	24
P	D	NK	-	P	-	NK	-	P
P	D	NK	-	P	-	NK	-	P
P	D	NK	-	P	-	NK	-	P
25	D	NK	-	26	-	NK	P	28, P
P	D	NK	-	P	-	NK	-	P
P	D	NK	-	P	-	NK	-	P
P	D	NK	-	P	-	NK	-	P
29	-	NK	P	30, P	D	NK	-	32, P
P	-	NK	-	P	-	NK	-	P
P	-	NK	-	P	-	NK	-	P
P	-	NK	-	P	-	NK	-	P
31, P	-	NK	-	32, P	D	NK	-	-
P	-	NK	-	P	-	NK	-	P
P	-	NK	-	P	-	NK	-	P
P	-	NK	-	P	-	NK	-	P
W	19.	-	NK	P	20	D	-	K
X	-	-	NK	-	P	D	-	-
Y	-	-	NK	-	-	D	N	-
Z	P	-	-	-	-	-	D	NK
W	23	-	N	-	P	24	D	N
X	P	-	-	-	-	P	D	NK
Y	-	-	NK	P	P	D	NK	-
Z	P	-	NK	-	-	-	D	-
W	27	-	N	-	P	28, P	D	NK
X	-	-	NK	P	-	D	N	-
Y	-	-	NK	P	P	D	-	-
Z	P	-	-	-	-	P	D	-
W	31, P	-	N	-	-	32, P	D	-
X	-	-	NK	P	-	D	N	-
Y	-	-	NK	-	-	D	NK	P
Z	P	-	-	-	-	-	D	-

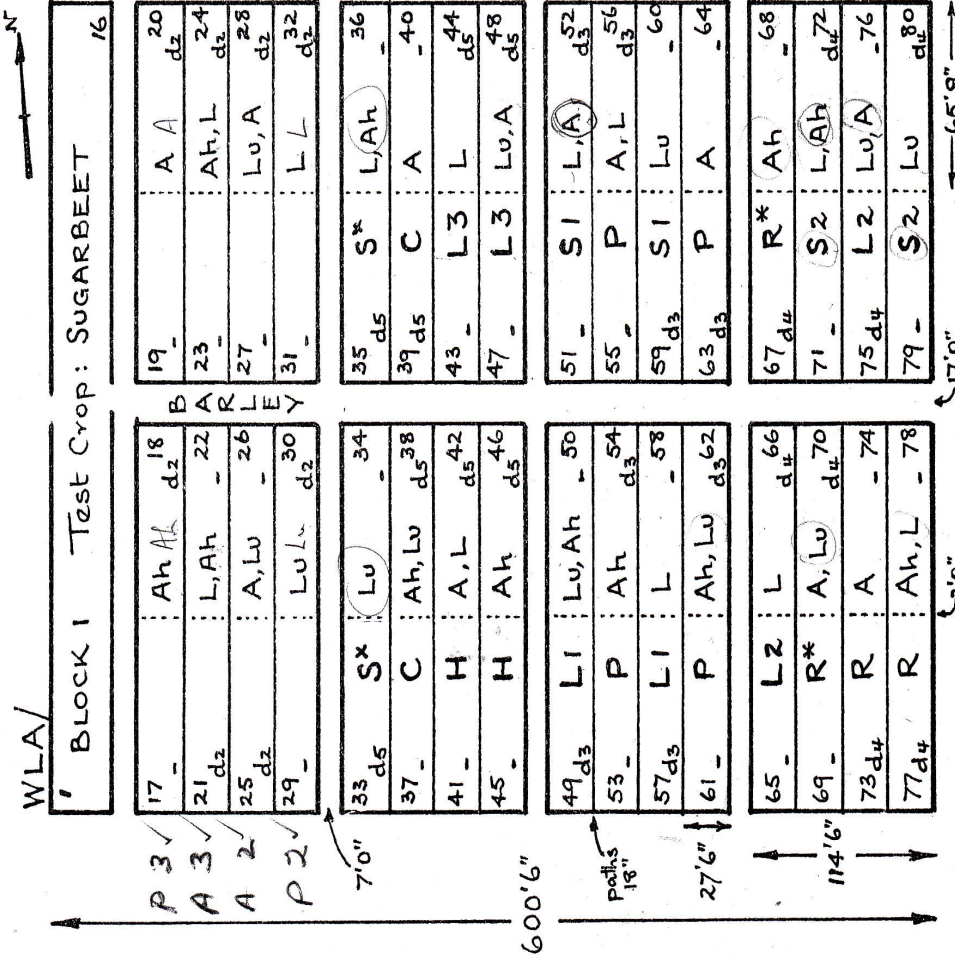
17' 0" 65' 9" 2' 0" 32' 10 1/2"

17' 0" 133' 6" 284' 0"

Note: Change of Ley 1964: Common Sainfoin in place of Lucerne, 1st year

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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)
N1, 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 K₂O as muriate of potash
Basal manuring: per acre
2.0 cut P₂O₅ as superphosphate, 500lb magnesium sulphate.

BLOCK 1 Test Crop Sugar Beet

135 -	P 6-4 1/2/5K	- 3K	W	31 -	- 2 -	41K	D 1 -
24K	P 6K 1/3	- 6K	X	2K	- 3K	4 -	P 3 -
13 -	P 5K 3/2, 4 -	- 6 -	Y	1K	- 3 -	2 -	P 4K
13K	D 4 - 2 1/2	5 -	4K	Z	4K	- 4 -	3K D 2K
53K	D 5 - 4 1/2	4 -	2K	W	72 -	- 4 -	8 4 - P 3K
34 -	P 4K 3/2/3	-	5K	X	1K	- 3 -	2 - P 3 -
45K	D 2K 1/2/3K	-	4K	Y	1 -	- 2K	4K D 2K
1/2 -	D 3 - 2 1/2	5 -	Z	4K	- 3K	1 -	D 1K
9, 5 -	- 6K 4 1/2/3K	D 5 - 3	W	114K	D 2K	121K	- 3K
1/3 -	- 3K 1 1/3	- D 4K	X	1 -	D 2 -	2K	- 3 -
24K	- 5K 3 1/6K	D 5K	Y	1K	D 3 -	4K	- 4 -
46 -	- 4 - 2 1/2	A - D 6 -	Z	4 -	D 3K	2 -	- 1 -
132K	D 4K 1/4 2 -	- 1K	W	154K	- 5K 4 1/6 5 -	D 3 - 2 -	
4 -	D 3 -	3K - 3 -	X	1/2K	- 4 - 3 1/2 -	D 4K	3 -
2 -	D 1K	4 - 4K	Y	4/5 -	- 2 - 1 3/4 -	D 3K	2 -
1 -	D 3K	2K - 1 -	Z	2 3/4 -	- 3K 2 1/4 5K	D 2K	1 -

Dimensions: 133'6" (total width), 17'0" (Block 1 width), 65'9" (Block 2 width), 284' (total length), 32'10 1/2" (Block 1 length), 6'10 1/2" (Block 2 length).

x Sainfoin in place of 3rd year Lucerne.
Plot area: 65'9" x 27'6" = 0.0415 acre
Sub-plot: 32'10 1/2" x 6'10 1/2" = 0.00519 acre

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STACKYARD 29th Year 1966

Woburn Arable & Ley Rotations

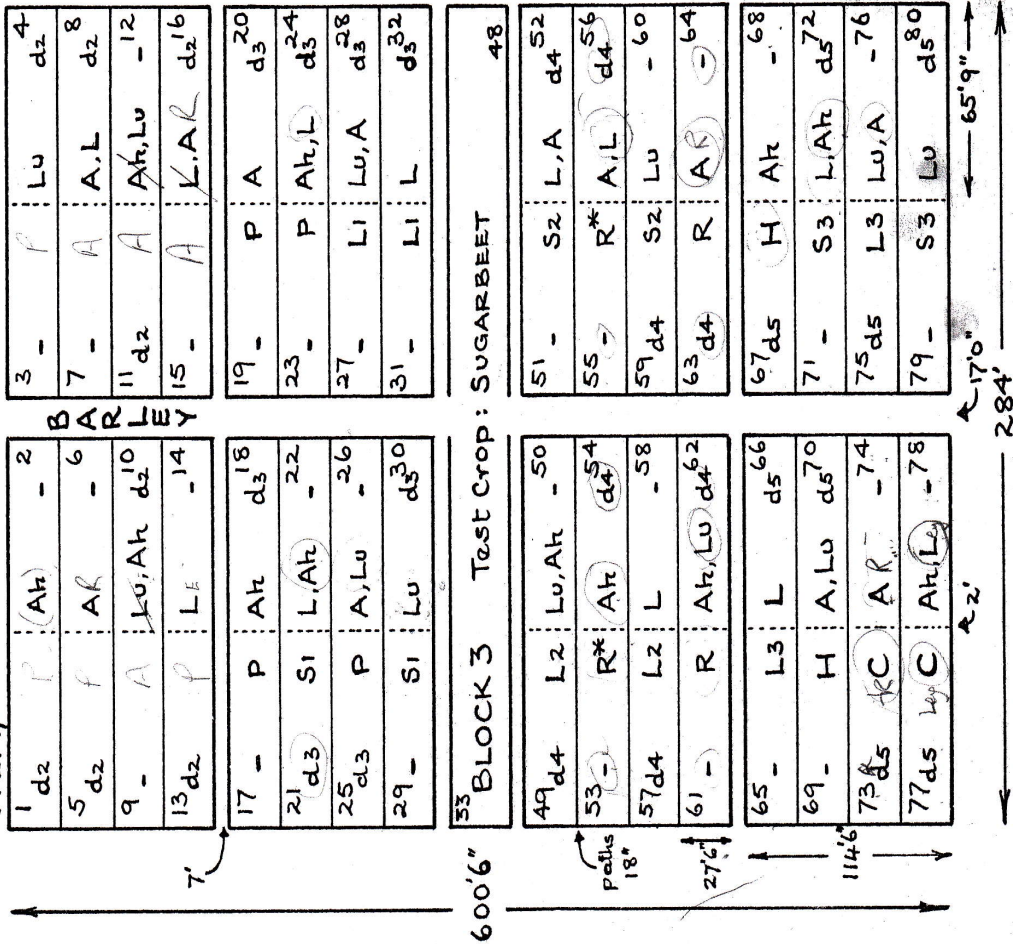
SYMBOLS
Rotations

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.

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.



SYMBOLS
Rotations

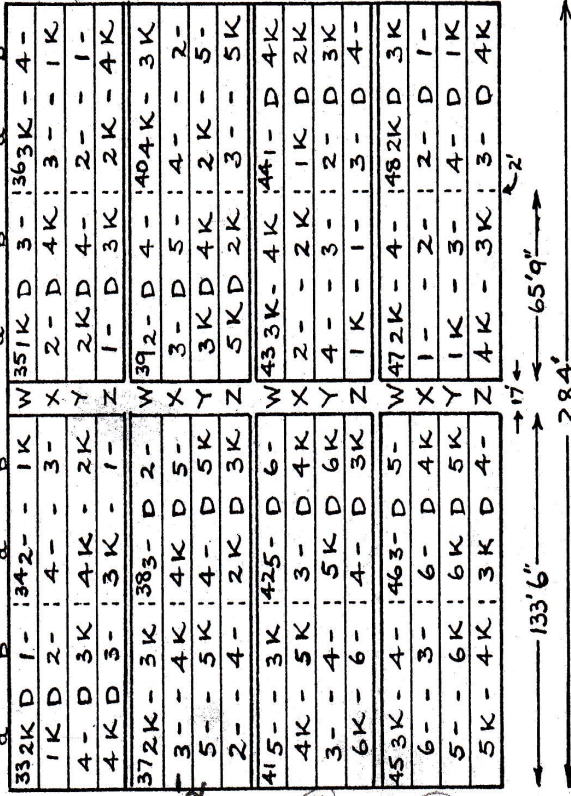
3 years ARABLE A: Potatoes P, Rye R, Carrots C.
Ah: Potatoes P, Rye's R* Hay H.
Lu: Lucerne cut for hay S: Sainfoin (as Lu)
L: Ley grazed.

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

TREATMENTS to SUGARBEET per acre

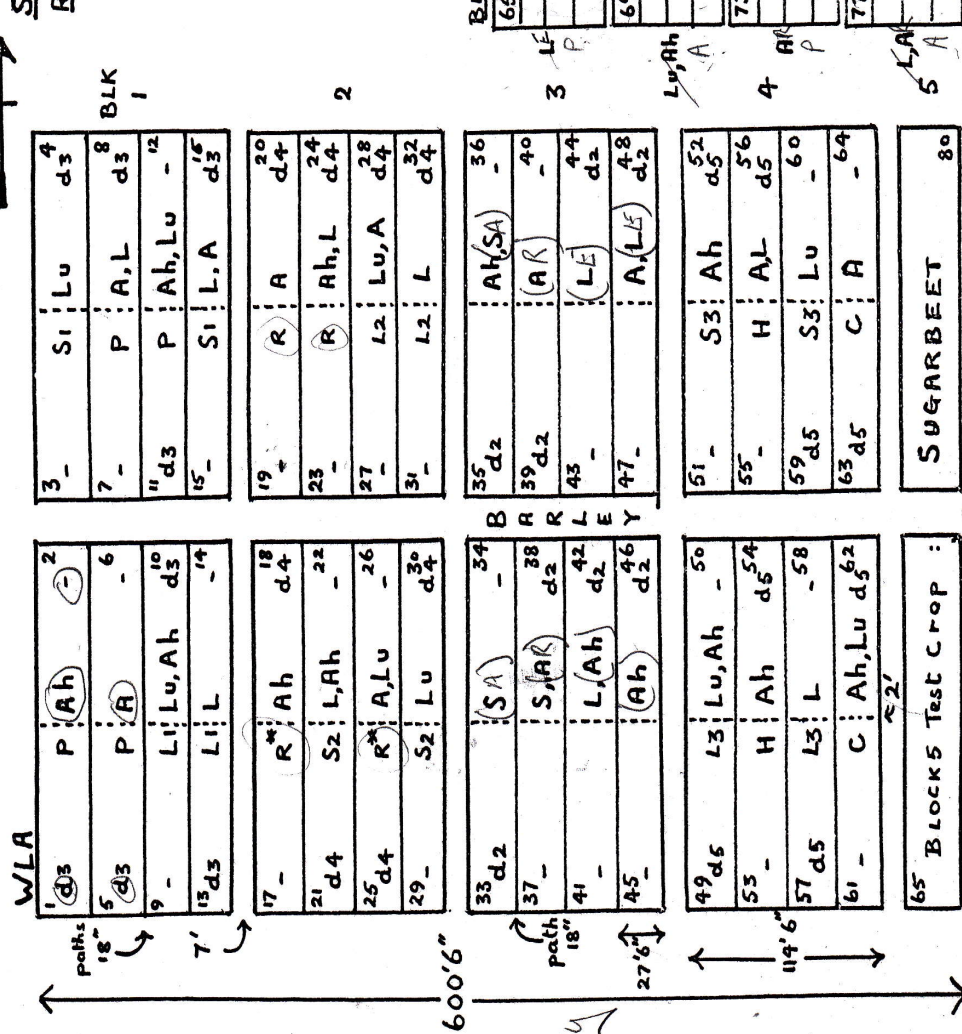
-, D None, 15 tons F.Y.M. (d = Residuals of FYM)
N to 1/8th sub-plots (N at 4 levels, rates according to rotation
N1, 2, 3, 4, 5, 6 0.35, 0.7, 1.05, 1.40, 1.75, 2.10 cwt N as N/c/21
-, K None, 0.9 cwt K₂O as muriate of potash.
Basal P & Mg.

BLOCK 3 Test Crop SUGARBEET



101
614 STACKYARD 30th year 1967

Woburn Arable & Ley Rotations



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: Lucerna)

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.

BLOCKS	Test Crop	SUGARBEET
65 - 1	66 4 2	W 67 4 2 68 5 3 -
- 4	2 D	X 3 3 1 - (Ah)
- 2	1 D	Y 3 1 6 4 - P
- 3	3 D	Z 6 4 4 2 -
69 - 3	70 5 3 D	W 71 - 2 72 3 D
- 4	6 4 D	X - 4 1 D
- (6 4)	5 1 D	Y - 3 4 D
- 5 3	4 2 D	Z - 1 2 D
73 D	74 3 2 -	W 75 D 2 76 1 -
D 4 3	2 1 -	X D 3 2 -
D 3 2	5 4 -	Y D 1 3 -
D 5 4	4 3 -	Z D 4 4 -
77 D	78 2 1 -	W 79 - 4 80 3 D
D 5 4	3 2 -	X - 2 4 D
D 2 1	5 4 -	Y - 1 1 D
D 3 2	4 3 -	Z - 3 2 D



101
STACKYARD 31st year 1968.

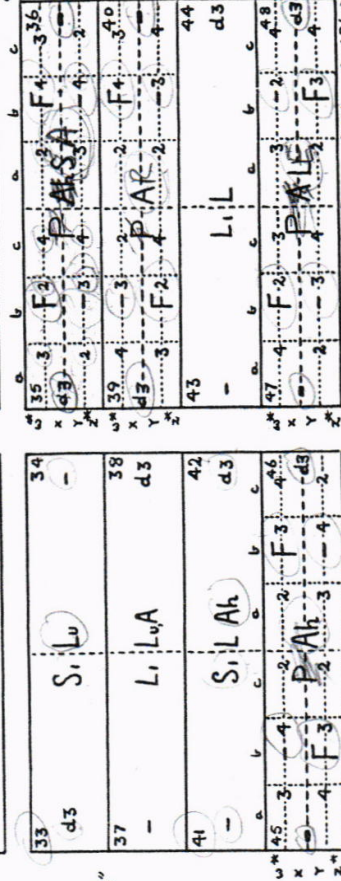
Woburn
WLA

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	d5
21 d5	S3:LAh	-22
25 d5	H:ALu	-26
29 d5	S3:Lu	d5

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

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



SYMBOLS

Rotations
3 years ARABLE
3 years LEY

TEST CROPS

TREATMENTS :-
Treatment potatoes 1968:
Fungicides -, F Nona, Chloropicrin in autumn 1967
Nitrogen 2,3,4 10cut, 15cut, 20cut N as Nitro-chalk
Sub-plots and 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.

BLOCK 4 1ST TEST

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

CROP BARLEY

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

BLOCK 4 1ST TEST CROP BARLEY

49 3	-	1	2	50
46 2	1	3	-	-
53 4	2	3	1	54
3	1	2	4	d6
57 3	-	2	3	58
61 1	3	4	3	62
2	4	1	2	d6
63 1	2	1	4	64
65 3	4	3	2	d6
2	4	1	2	3

WOBURN 69/W/RN/3

STACKYARD 32nd year 1969 201 A.

ARABLE & LEY ROTATIONS

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

03 -	S3 Lu	d6 ⁴
07 -	H AL	d5 ⁸
11 d5	C AhLu	- 12
15 -	S3 LA	d5 ¹⁶

1st TEST CROP BARLEY LEY

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 BARLEY

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	f
2	f	-	d4	d2

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

BARLEY LEY

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 Sugar beet
1967 Barley
1968 Barley
2nd Test crop 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 P₂O₅, 0.5 cut K₂O as (0:20:20).
2nd test crop barley - 0.5 cut N, 0.5 cut P₂O₅, 0.5 cut K₂O as (15:15:15)
Rye - 0.3 cut N as 'Nitro-chalk', 0.3 cut P₂O₅, 0.6 cut K₂O 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	1	2	3	1	2	3
051 A	3	1	101	3	1	4	4	4	3	2	4	4	4	4	3	2	4	4	4	4
091 AhL	2	4	101	3	1	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
131 L	2	4	101	3	3	4	4	4	3	2	4	4	4	4	3	2	4	4	4	4

1st TEST CROP
 1st Test Crop
 2nd Test Crop

SYMBOLS
 Rotations
 3 years ARABLE 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 cut (No more grazing)

TEST CROPS
 In 4th and 5th years

1st Test Crop
 2nd Test Crop

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 P₂O₅, 0-5 cut K₂O as (0:20:20)
 2nd test crop barley - 0-5 cut N, 0-5 cut P₂O₅, 0-5 cut K₂O as (15:15:15)
 Rye - 0-3 cut N as Nitro-chalk, 0-3 cut P₂O₅, 0-6 cut K₂O 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

19	Ah	27	A	27
23	Ah	27	A	27
27	Ah	27	A	27
31	Ah	27	A	27

2

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 P₂O₅, 0-5 cut K₂O as (0:20:20)
 2nd test crop barley - 0-5 cut N, 0-5 cut P₂O₅, 0-5 cut K₂O as (15:15:15)
 Rye - 0-3 cut N as Nitro-chalk, 0-3 cut P₂O₅, 0-6 cut K₂O 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

33	S3:Lu	34	AhS	34
37	L3:LuA	38	A	38
41	S3:LAh	42	A	42
45	H:Ah	46	A	46

3

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 P₂O₅, 0-5 cut K₂O as (0:20:20)
 2nd test crop barley - 0-5 cut N, 0-5 cut P₂O₅, 0-5 cut K₂O as (15:15:15)
 Rye - 0-3 cut N as Nitro-chalk, 0-3 cut P₂O₅, 0-6 cut K₂O 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

49	L2:L	50	Ah	50
52	L2:LuAh	53	A	53
56	R:AR	57	A	57
60	S2:LA	61	A	61

4

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 P₂O₅, 0-5 cut K₂O as (0:20:20)
 2nd test crop barley - 0-5 cut N, 0-5 cut P₂O₅, 0-5 cut K₂O as (15:15:15)
 Rye - 0-3 cut N as Nitro-chalk, 0-3 cut P₂O₅, 0-6 cut K₂O 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

64	L2:L	65	Ah	65
68	L2:LuAh	69	A	69
72	R:AR	73	A	73
76	S2:LA	77	A	77

5

1st Test crop barley 1970

Nitrogen after arable 1, 2, 3, 4. 0-4, 0-8, 1-2, 1-6 cut N

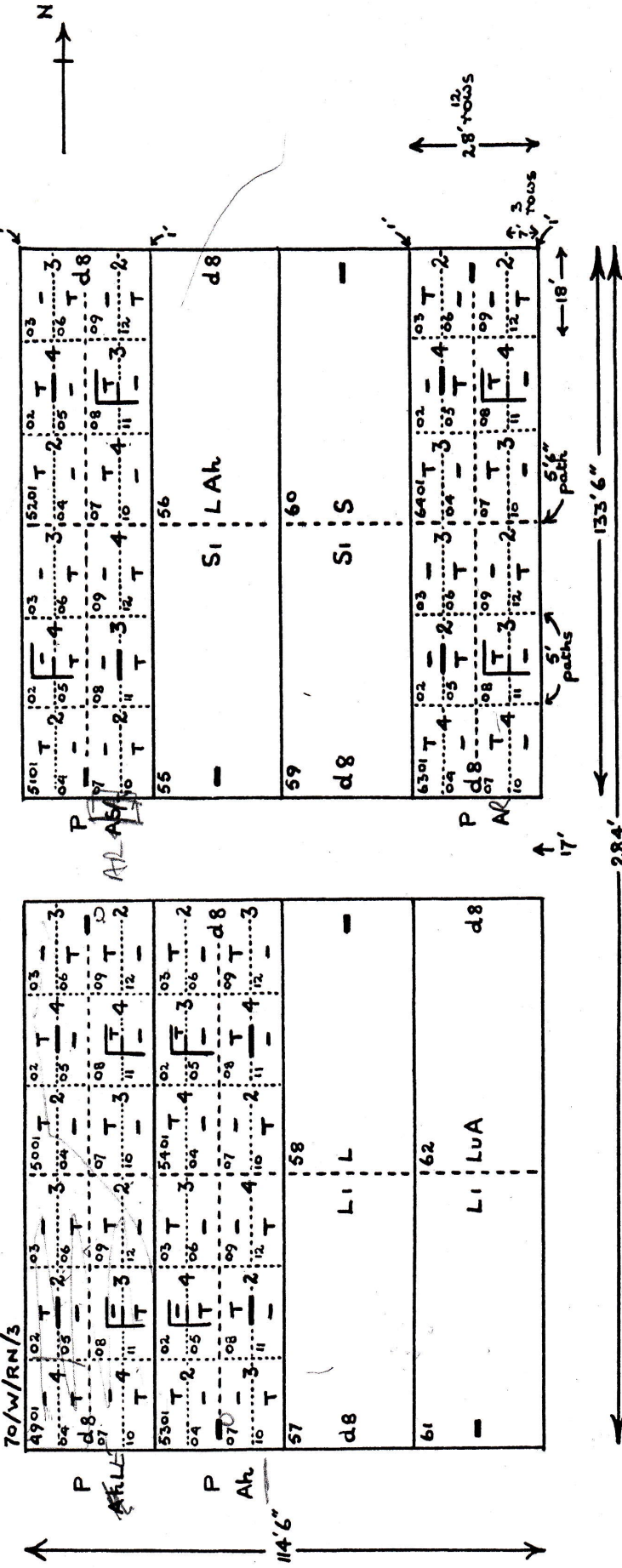
Nitrogen after ley and sainfoin -1, 2, 3. None, 0-4, 0-8, 1-2 cut N
 as Nitro-chalk 2i.

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 P₂O₅, 0-5 cut K₂O as (0:20:20)
 2nd test crop barley - 0-5 cut N, 0-5 cut P₂O₅, 0-5 cut K₂O as (15:15:15)
 Rye - 0-3 cut N as Nitro-chalk, 0-3 cut P₂O₅, 0-6 cut K₂O 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 33rd 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 P₂O₅, 1.8 cwt K₂O as compound fertiliser (0:14:28)
 336 lb Epsom salts
VARIETY: Maris Piper Planted: 22 Apr.
PLOT AREA 18'x7' = 0.0029 acre
 harvested one row 2'4" x 18' = 0.0010 acre

STACKYARD 'D' 34th year 1971 201A

WOBURN ARABLE AND LEY ROTATIONS

→ N

T1/W/RN/3

01	Ah	02	Ah	04	S
03	A	06	Ah	08	L
07	AhL	10	AhL	12	L
09	L	14	L	16	L
13	L	18	L	20	L

03	S	04	S
07	L	08	L
11	L	12	L
14	L	15	L
15	L	16	L

17	PAh	18	PAh	20	PAh
21	PAhS	22	PAhS	24	PAhS
25	L:LuAh	26	L:LuAh	28	L:LuAh
29	S:L	30	S:L	32	S:L

19	PA	20	PA
23	S:LA	24	S:LA
27	PAh	28	PAh
31	L:L	32	L:L

Block 3 1st Test

For plot treatments

481	(F) Ah	501	(F) Ah
482	(F) Ah	502	(F) Ah
531	(F) Ah	541	(F) Ah
532	(F) Ah	542	(F) Ah
57	L	58	L
61	L	62	L

Crop Potatoes 48

see separate plan 2016

51	(F) Ah	521	(F) Ah
52	(F) Ah	522	(F) Ah
55	S:LAh	56	S:LAh
59	S:L	60	S:L
63	(F) Ah	641	(F) Ah
632	(F) Ah	642	(F) Ah

65	L3 L	66	L3 L	68	H:Ah
69	LuAh	70	LuAh	71	C:AhS (C)
73	(F) Ah	741	(F) Ah	72	C:AhS (F)
732	(C) Ah	742	(C) Ah	75	H:AL
77	S3 LA	78	S3 LA	79	S3 S

67	H:Ah	68	H:Ah
71	(C) Ah	721	(C) Ah
72	(F) Ah	722	(F) Ah
75	H:AL	76	H:AL
79	S3 S	80	S3 S



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 @ 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

2nd test crop Barley - Julia.

0.5 cut (45kg) N, 0.5 cut (53kg) P₂O₅, 0.5 cut (53kg) K₂O as (15:15:15)

1st treatment crop potatoes - Maris Piper

2.0 cut (252kg) N, 2.0 cut (252kg) P₂O₅, 3.0 cut (376kg) K₂O as (15:15:20)

2nd treatment crop rye - King II

0.5 cut (38kg) N as Nitro-chalk 2:1, 0.3 cut (38kg) P₂O₅, 0.6 cut (76kg) K₂O as (0:14:28).

3rd treatment crop carrots - Autumn King

0.6 cut (76kg) N as Nitro-chalk 2:1, 0.6 cut (76kg) P₂O₅ as superphosphate

1.8 cut (226kg) K₂O as muriate of potash

All crops :-

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

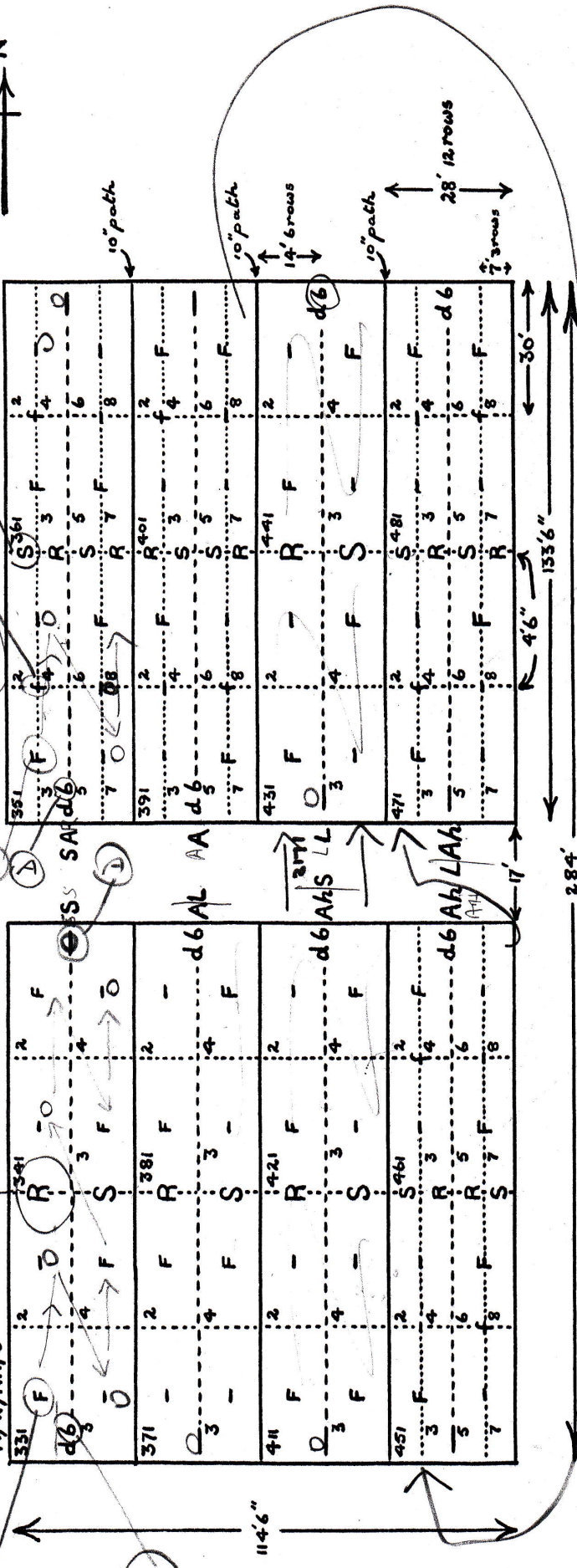
to sugar beet 1962-67

WOBURN 3171
71/W/RN/3

ARABLE AND LEY ROTATIONS
Potatoes Block 3

33rd Year

STACKYARD D 1971 2018



TREATMENTS potatoes (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 Treatment crop Barley - Julia at 137lb (154kg)

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

3rd Treatment 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 Treatment crop - potatoes

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

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

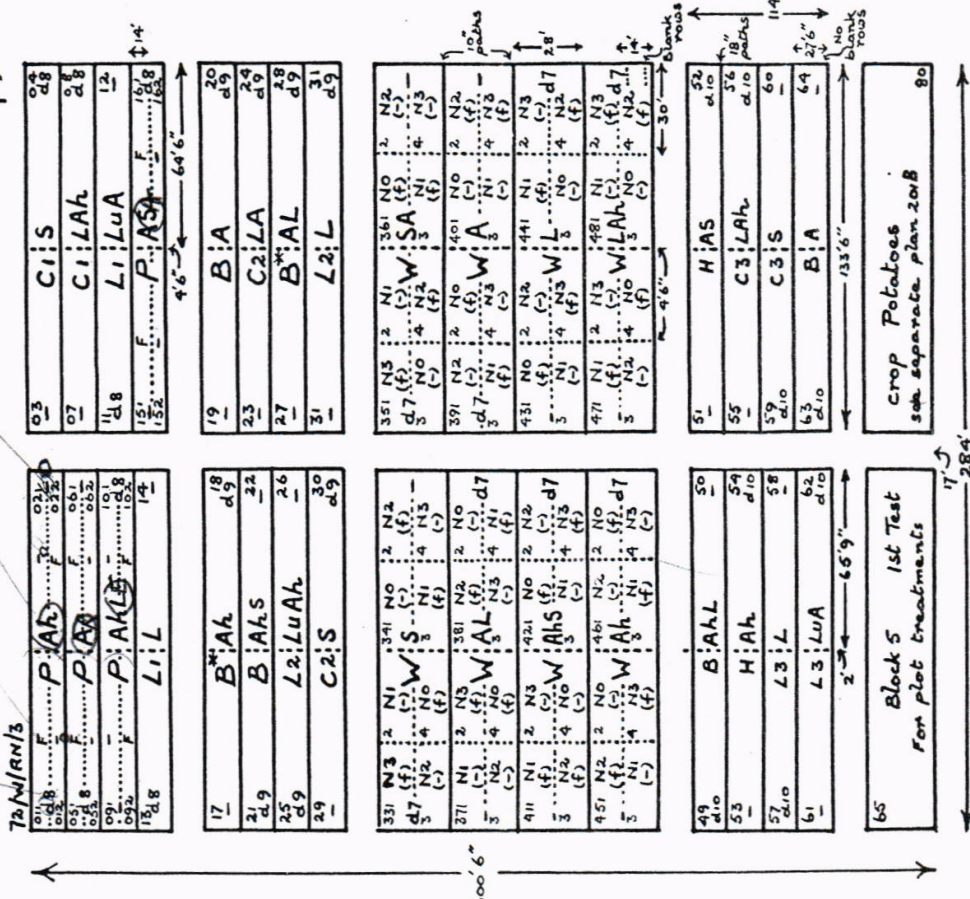
Variety - Maris Piper planted: 29 March

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

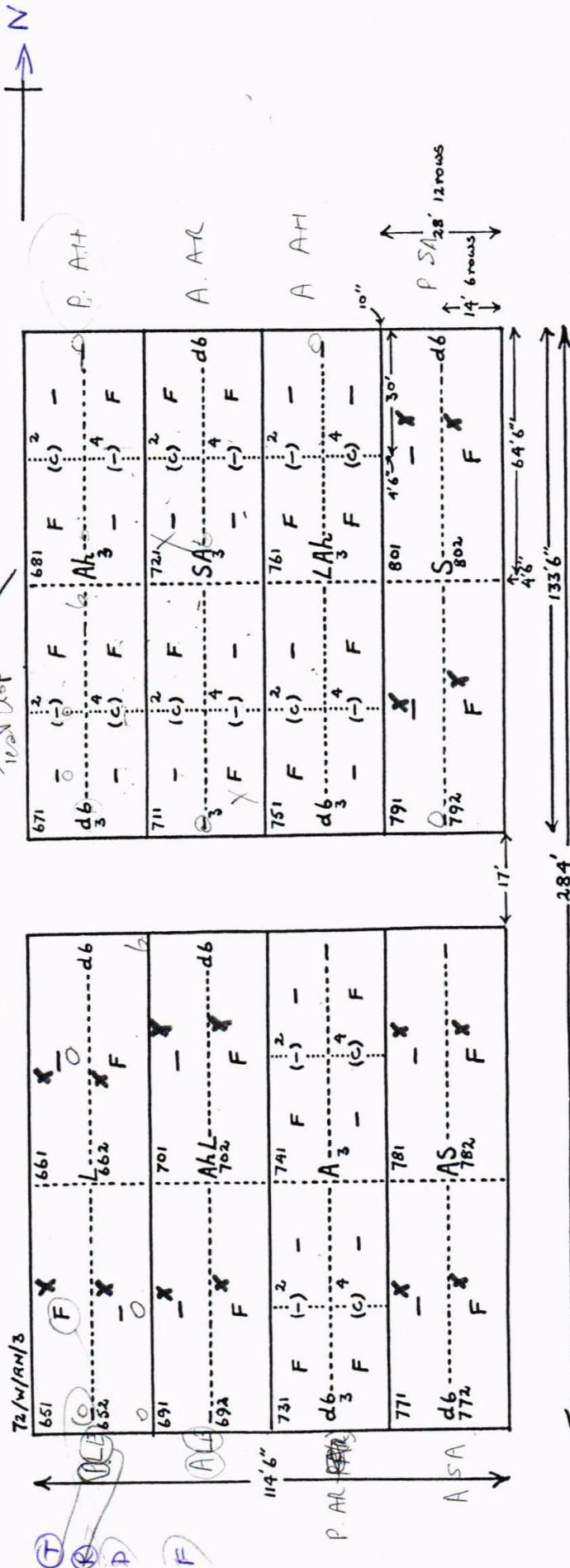
STACKYARD D 1972

35th year

ARABLE AND LEY ROTATION

Potatoes Blocks

WOUBURN



VARIETY 'Resistant' to H.rostochianensis Maris Piper Planted: 29 Mar.

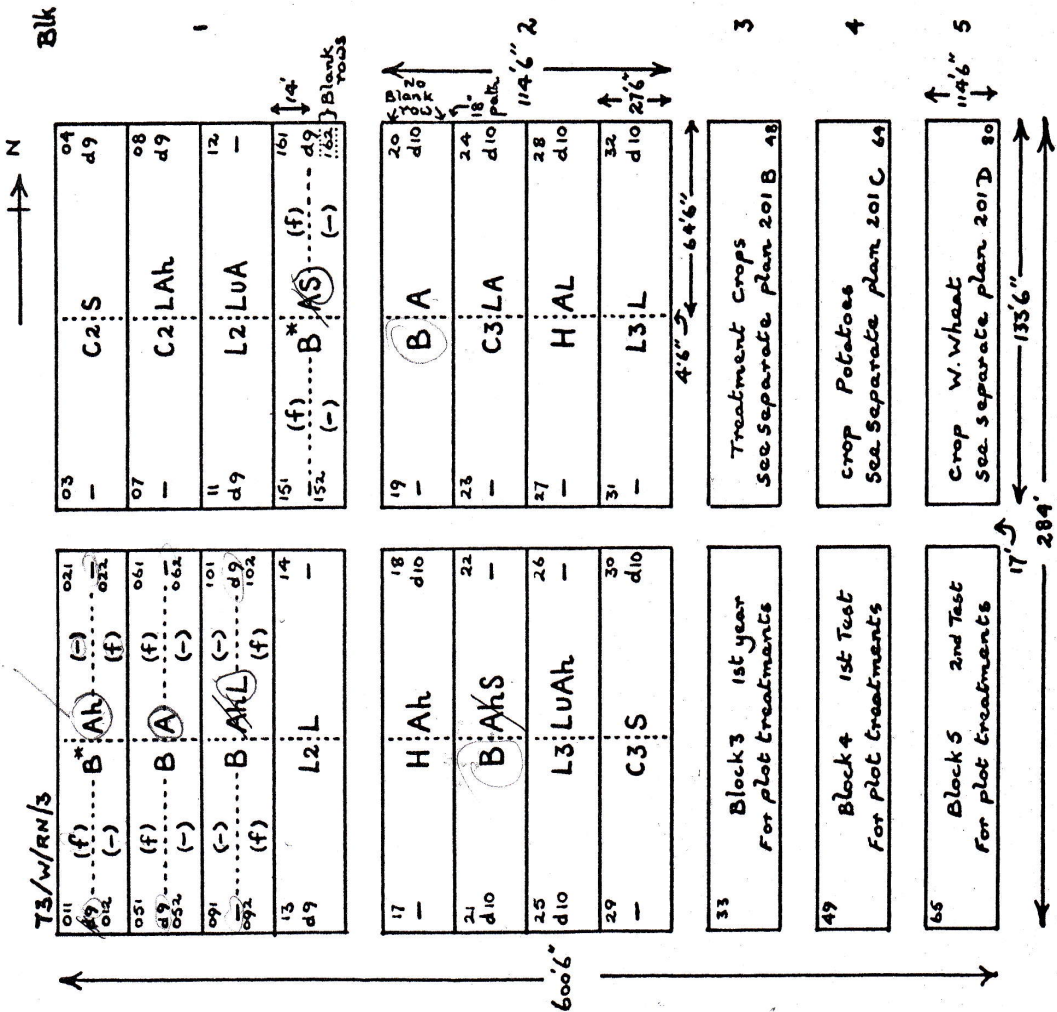
BASAL MANURING per acre (hectare)
1752 lb (1964 kg) compound fertiliser (13:13:20)

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)

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

36th year STACKYARD 'D' 1973 201A

WOBURN ARABLE AND LEY ROTATION



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, L: Lucerne)
L = Ley, cut.

2nd and 3rd TREATMENT CROPS
2nd treatment Barley

Residues of fumigants applied to potatoes 1972
(-), (f) None, 400lb (448kg) chloropicrin + 5lb (6kg) Aldicarb.
2nd & 3rd treatment Barley (Julio, dressed athermal) sown: 12 Mar
355lb of compound fertiliser (409kg) (15:15:15) e.d.
3rd treatment crop Hay ^{1/2} 1972 in Barley
1st cut (126kg) N as 'Nitro-chalk' 2.5, 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 (25:0:16) after 1st cut.

2nd and 3rd year cut Ley

1.2 cut (151kg) N, 0.9 cut (118kg) K₂O as (25:0:16) in three equal dressings.
Any dressing may be omitted or reduced in a wet season.

2nd and 3rd year clover

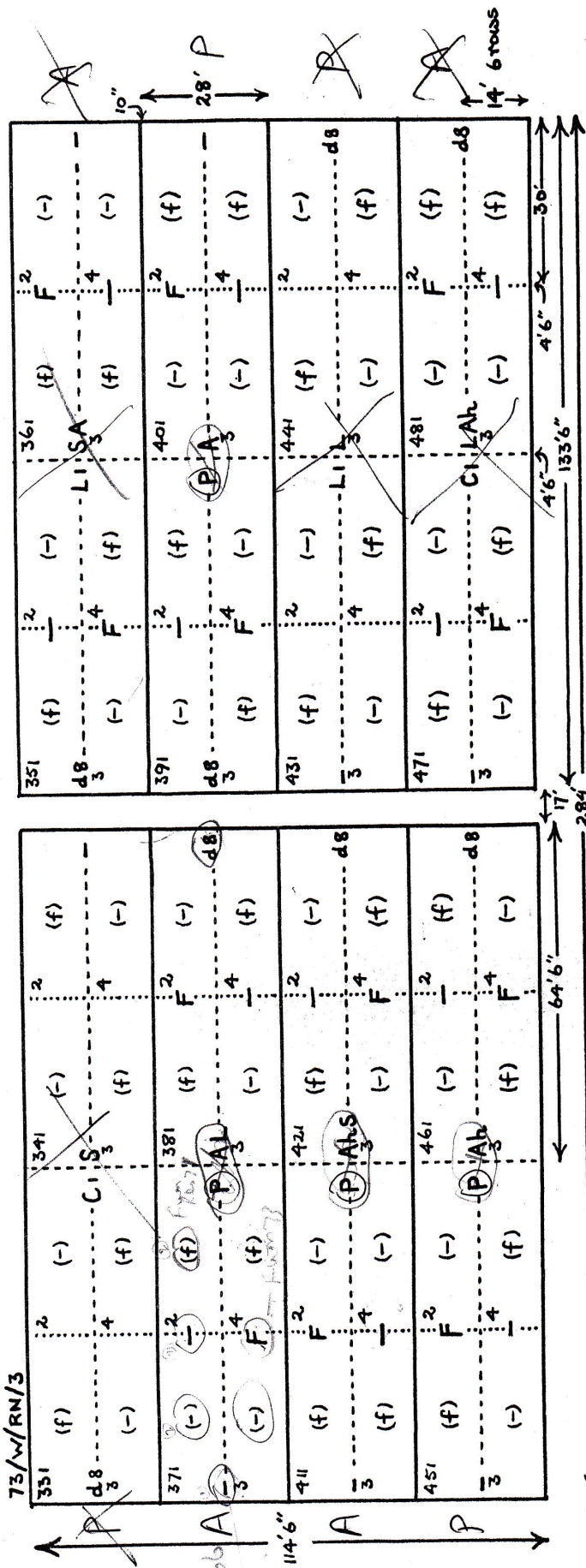
0.6 cut (65kg) N as 'Nitro-chalk' 2.5, 1.5 cut (188kg) K₂O as muriate of potash, in spring.

ALL CROPS :-

FYM

- , d Residual of none v. 15 tons (38 tonnes). FYM applied to sugar beet 1962-67 (1st test crop).

WOBURN 73/W/RN/3 ARABLE AND LEY ROTATION 36th year STACKYARD 'D' 1973 201 B
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 (15:15:20)

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 4/5, 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)

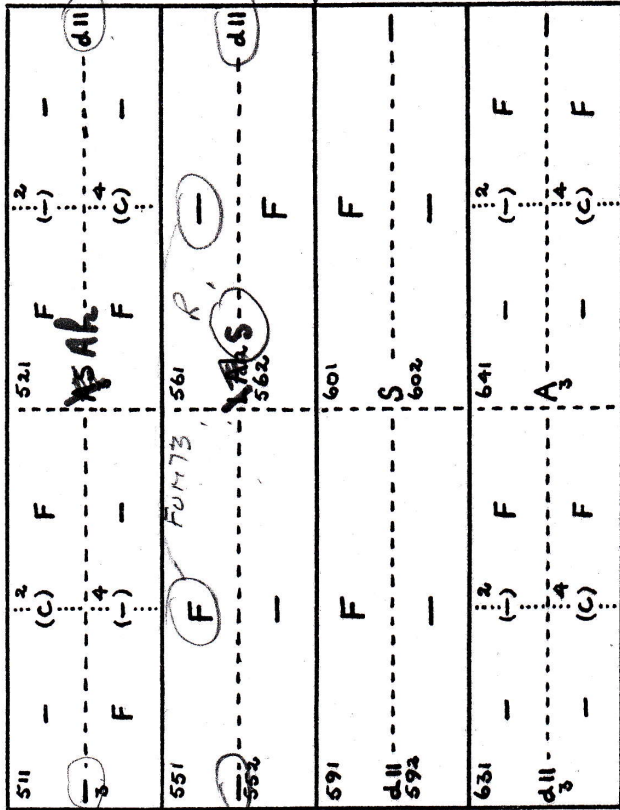
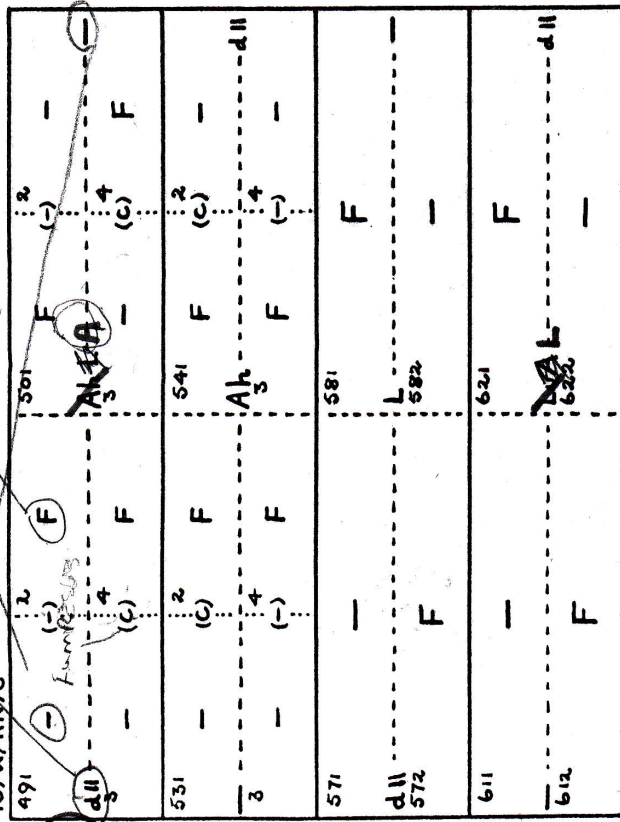
WOBURN 36th year STACKYARD D 1973 201c

→ N

Amended Plan 3d/1/73

ARABLE AND LEY ROTATION Block 4

1st Test Crop



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

64'6" 284'

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
FYM RES 6
FYM RES 70
FYM RES 73

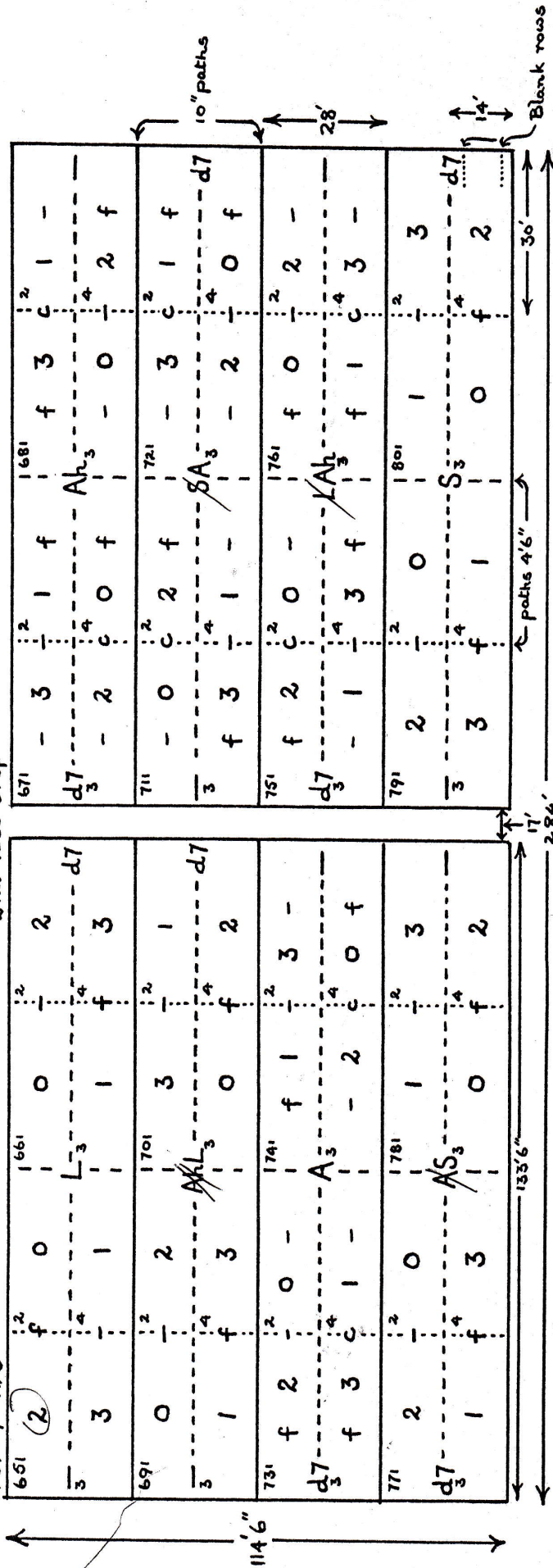
201 D

STACKYARD D 1973

36th 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 (297 kg) 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 **STACKYARD 'D' 1974 201A**

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

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 ethionol) 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) P₂O₅, 1.2 cut (151kg) K₂O as (0:14:28) in

Spring. 0.6 cut (75kg) N, 0.4 cut (50kg) K₂O as (25:0:16) after 1st cut.

2nd and 3rd year cut Ley

1.2 cut (151kg) N, 0.9 cut (113kg) K₂O 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) K₂O 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).

ARABLE AND LEY ROTATION

WOBURN 74/W/RN/3

011	(f)	H	Ah	(-)	021
d10	(-)			(f)	022
051	(f)	B	A	(f)	061
d10	(-)			(-)	062
091	(-)	B	Ah	(-)	101
d10	(f)			(f)	102
13		L3	L		14
d10					-

17 Block 2 1st Test For plot treatments

331	(f)	2	(-)	341	(-)	2	(f)
d9	(-)	4	(f)	351	(f)	2	(-)
371	(-)	3	(f)	381	(f)	3	(-)
d9	(-)	4	(f)	391	(-)	3	(f)
411	(f)	3	(-)	421	(-)	3	(f)
d9	(-)	4	(f)	431	(f)	3	(-)
451	(f)	3	(-)	461	(-)	3	(f)
d9	(-)	4	(f)	471	(f)	3	(-)

49 Block 4 2nd Test For plot treatments

65	Blocks 1st year For plot treatments
----	-------------------------------------

03		C3	S	04
d10				d10
07		C3	L	Ah
d10				d10
11		L3	L	12
d10				-
151	(f)	H	A	161
d10	(-)			d10
152	(-)			162

Crop Potatoes See separate plan 201B 32

351	(f)	2	(-)	361	(f)	2	(-)
d9	(-)	4	(f)	371	(f)	2	(-)
391	(-)	3	(f)	401	(-)	3	(f)
d9	(-)	4	(f)	411	(f)	3	(-)
431	(f)	3	(-)	441	(-)	3	(f)
d9	(-)	4	(f)	451	(f)	3	(-)
471	(f)	3	(-)	481	(-)	3	(f)
d9	(-)	4	(f)	491	(f)	3	(-)

Crop W. Wheat See separate plan 201C 64

Treatment crops See separate plan 201D 80

31k

1

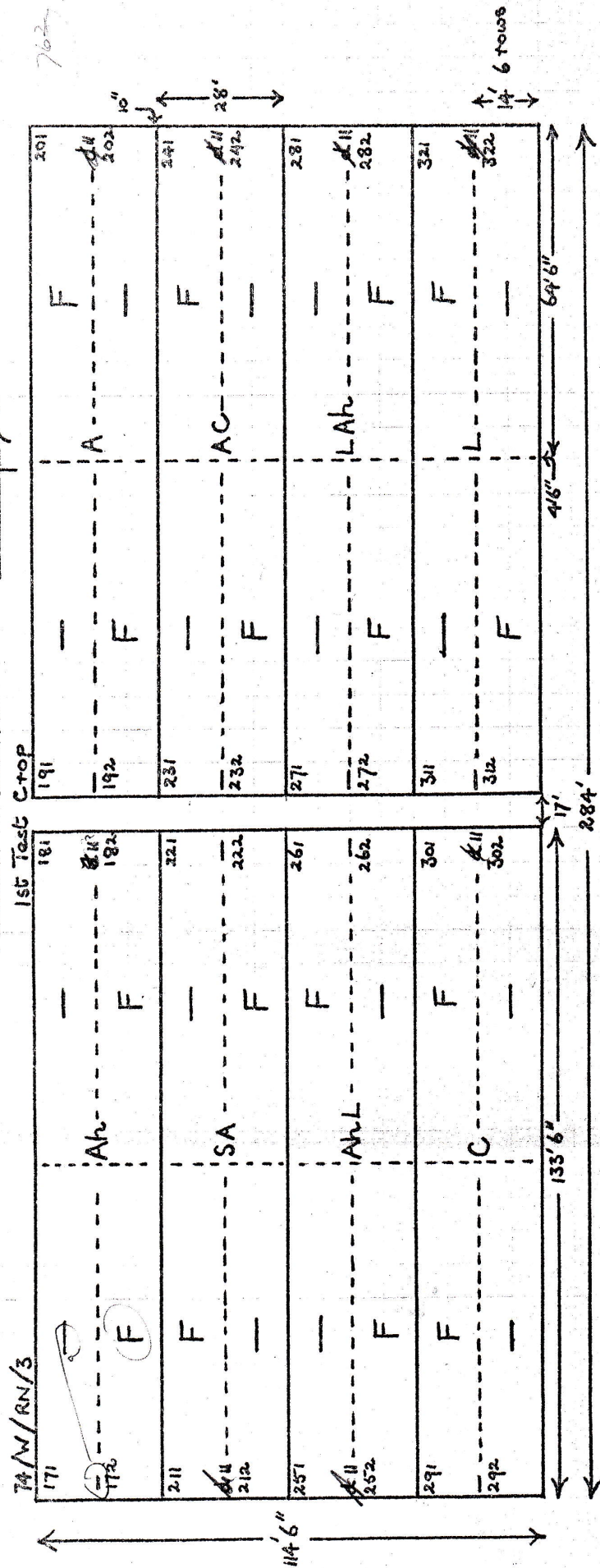
2

3

4

5

WOBBURN ARABLE AND LEY ROTATION 3 1/2 year 3/4 year 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

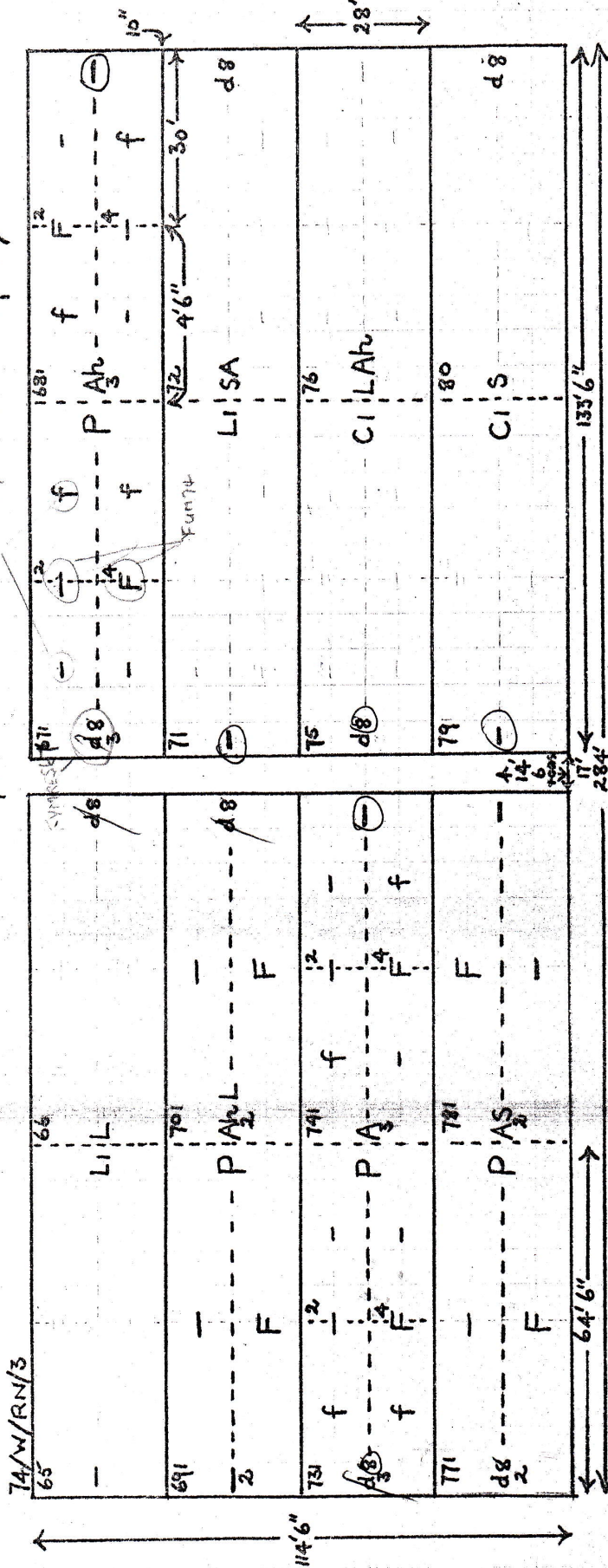
FUMIGANTS
- None
F 200lb (224kg) Telone in autumn + 6lb (6.7kg) aldicarb in spring

WOBURN
74/W/RN/3

ARABLE AND LEY ROTATION
1st treatment crops Block 5

37th year STACKYARD D 1974 201D

FURRES 72



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)

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

Ah= Potatoes P, Barley ¹/₈, 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

201 B

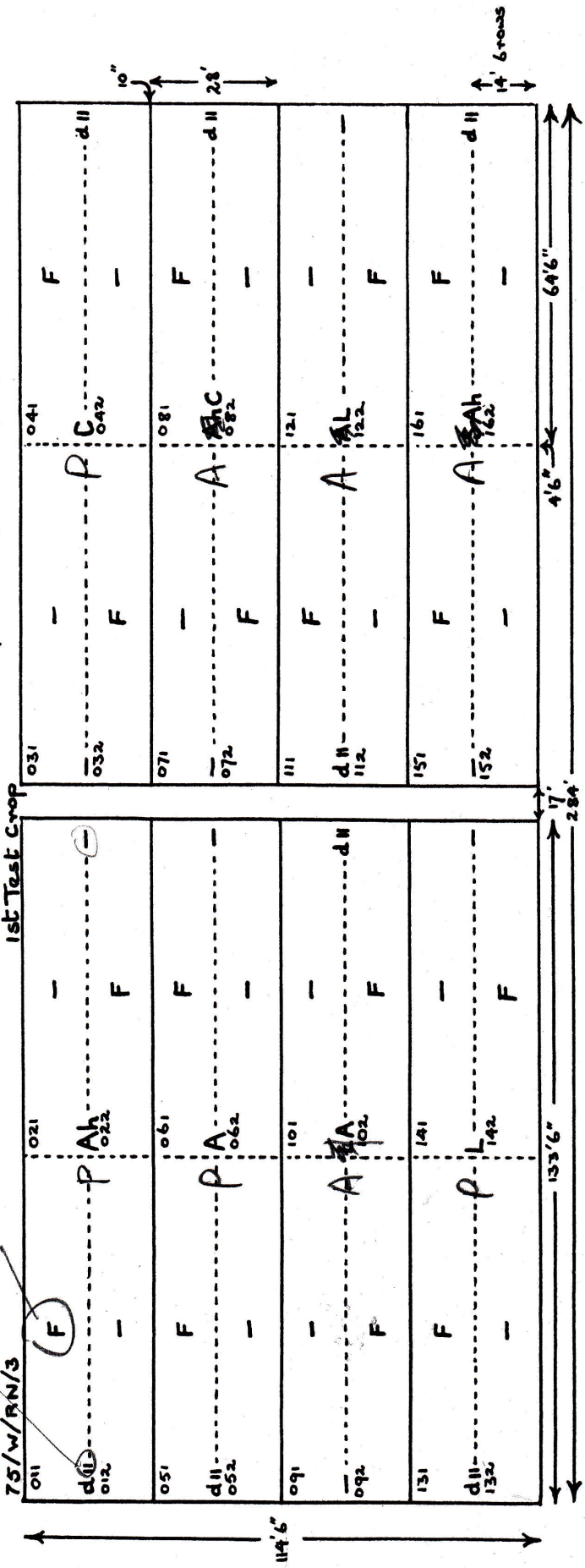
WOBURN

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 || None, FYM residues - last applied 1965.

FUMIGANTS

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

VARIETY Mavis Piper

Planted: 5 May

BASAL MANURING per acre (hectare)

1730 lb (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

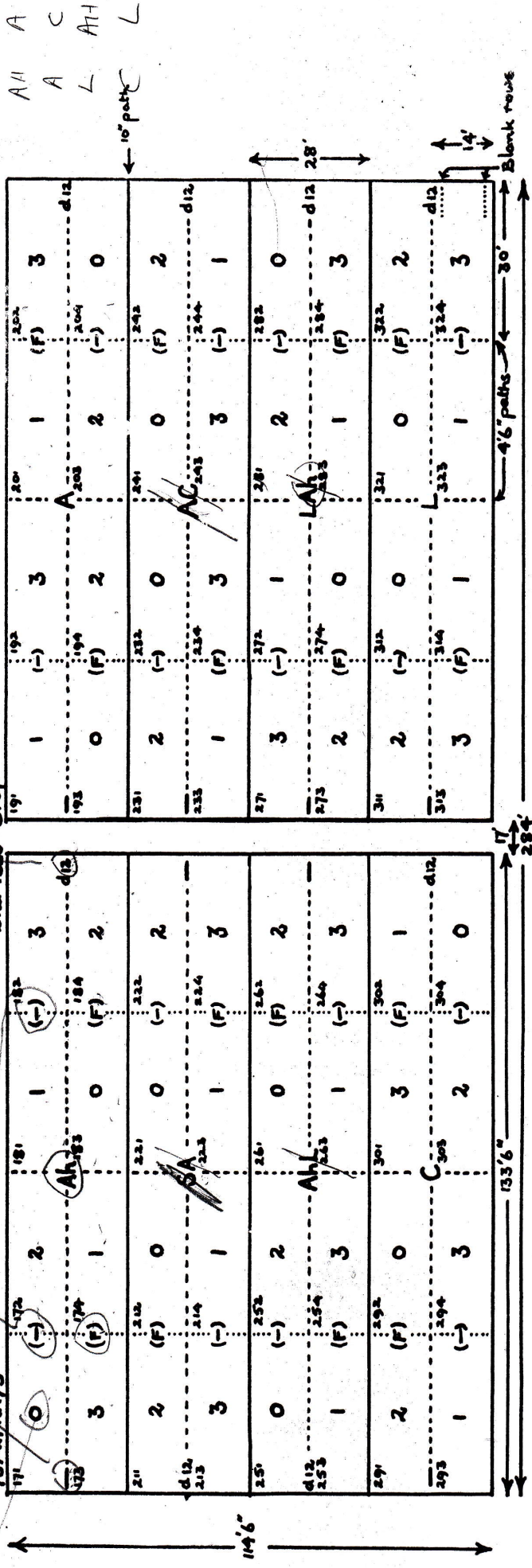
2nd Test Crop

FUMRES 74

WOBURN

FYM RES 64

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



TREATMENTS per acre (hectare)

FYM residues

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

Fumigants - applied for potatoes 1974

(-) None

(F) Residues of 200lb (22.4kg) Telone

+ 6lb (6.7kg) aldicarb.

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

VARIETY

Cappelle dressed dieckman

PLOT AREA

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

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

sown @ 1175 lb (196kg) Date: 8 Nov 1974

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

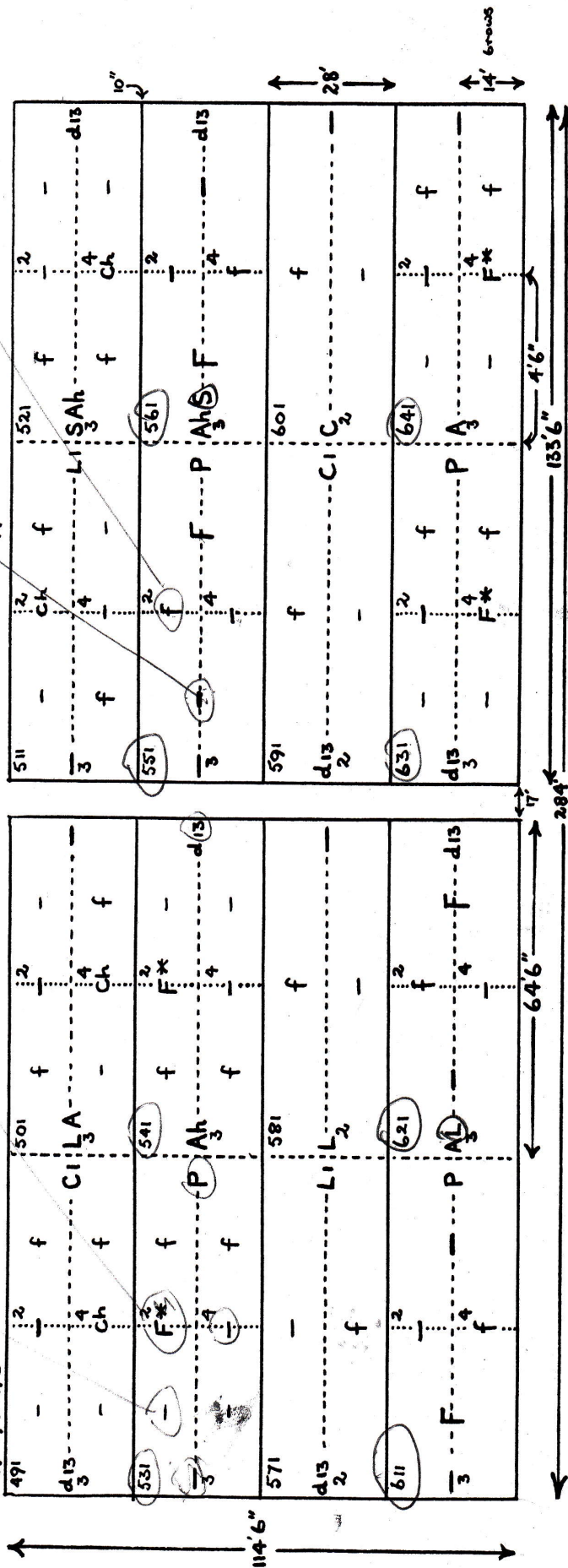
Arable and Ley Rotation 38th year (3) Fumigant 75 (4) Fumigant 73

Block 4

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

Stackyard D 1975

1st treatment crops



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 (5)

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 (400 kg) chloropicrin

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

- f None, 400 lb (400 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

59th year

STACKYARD 'D' 1976 201A

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 B, 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 abt. animal) } 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 2.5, 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in the seedbed. 75 kg (67 lb) N, 48 kg (43 lb) K₂O as (25:0:16) after each cut except the last.

2nd + years: 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in winter. 75 kg (67 lb) N, 48 kg (43 lb) K₂O 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) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in the seedbed. 48 kg (43 lb) K₂O as Muricide of potato after each cut except the last.

2nd + years: 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in winter. 48 kg (43 lb) K₂O as Muricide of potato in spring and after each cut except the last.

Leys drilled: 22 Apr.

19	(A) F	20	F	d 10
----	-------	----	---	------

23	(AC) LLC1*	24	LLC1*	d 13
27	(LAh) LLn1	28	LLn1	d 13
31	(L) Ln1	32	Ln1	d 13

33	Wheat	34	Wheat	35	Wheat
----	-------	----	-------	----	-------

51	(SAh) LLn2	52	LLn2	d 14
55	(AhS) LLC2*	56	LLC2*	d 14
59	(C) LC2	60	LC2	-
63	(A) F	64	F	-

65	(L) Ln3	66	Ln3	d 10
69	(AhL) LLn3*	70	LLn3*	d 10
73	(A) O	74	O	d 10
77	(AS) LLC3*	78	LLC3*	d 10

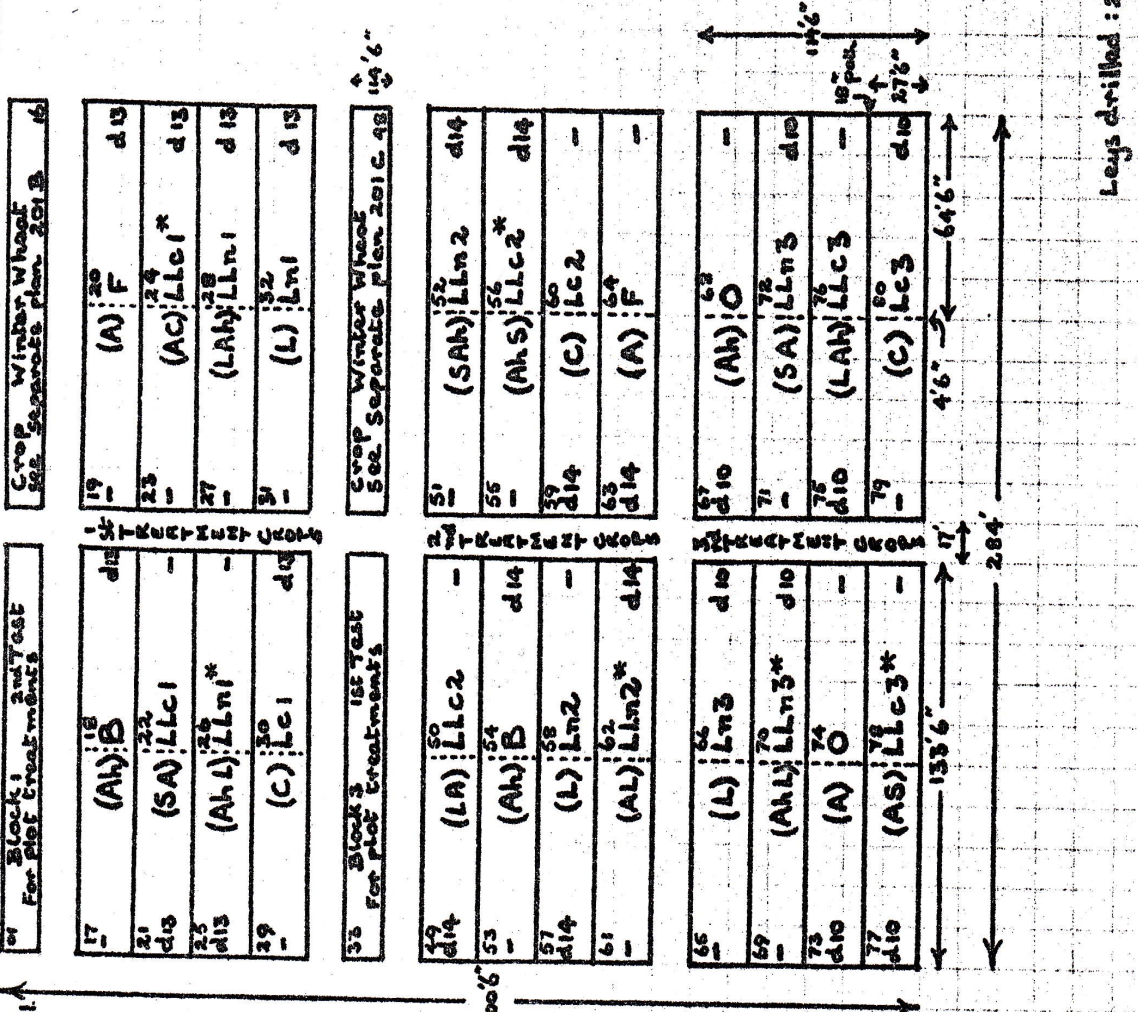
17	(Ah) B	18	B	d 10
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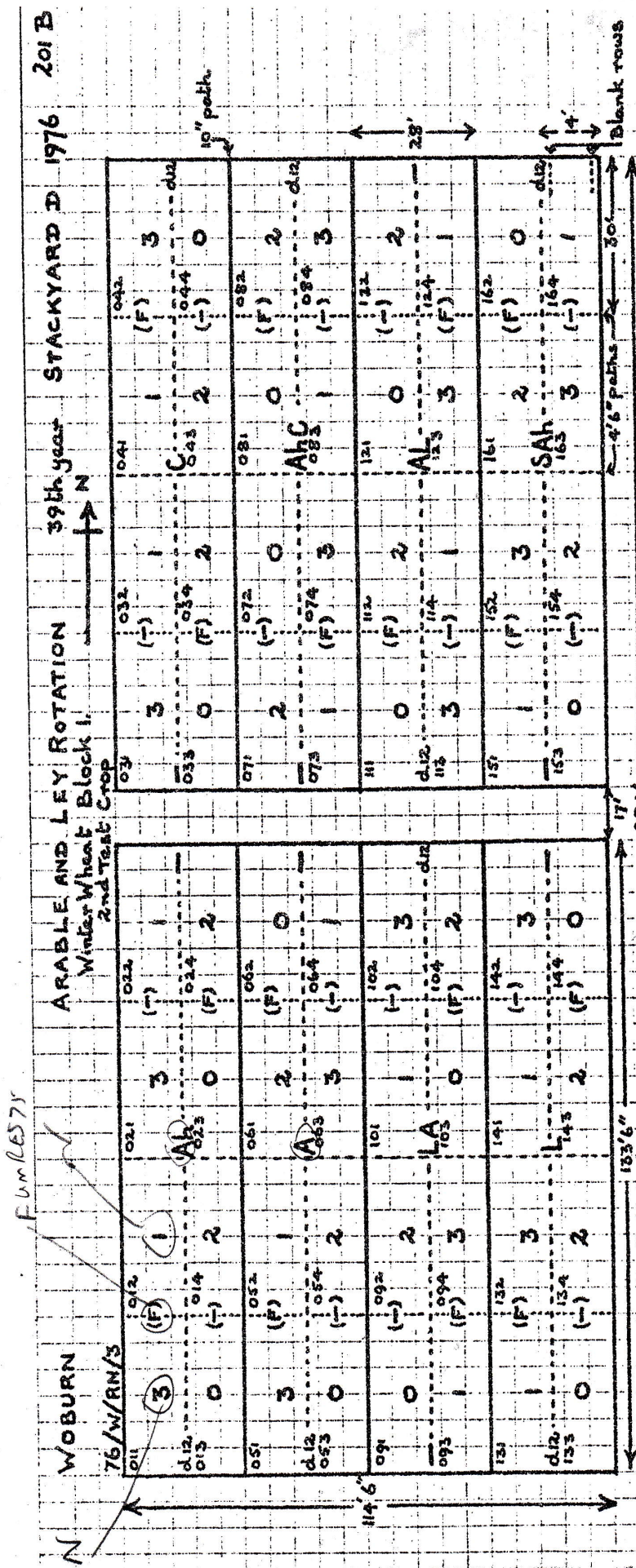
21	(SA) LLC1	22	LLC1	-
25	(AhL) LLn1*	26	LLn1*	-
29	(C) LC1	30	LC1	d 10

33	Wheat	34	Wheat	35	Wheat
----	-------	----	-------	----	-------

57	(LA) LLC2	58	LLC2	d 14
61	(Ah) B	62	B	d 14
65	(L) Ln2	66	Ln2	-
69	(AL) LLn2*	70	LLn2*	d 14

65	(L) Ln3	66	Ln3	d 10
69	(AhL) LLn3*	70	LLn3*	d 10
73	(A) O	74	O	-
77	(AS) LLC3*	78	LLC3*	-





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)

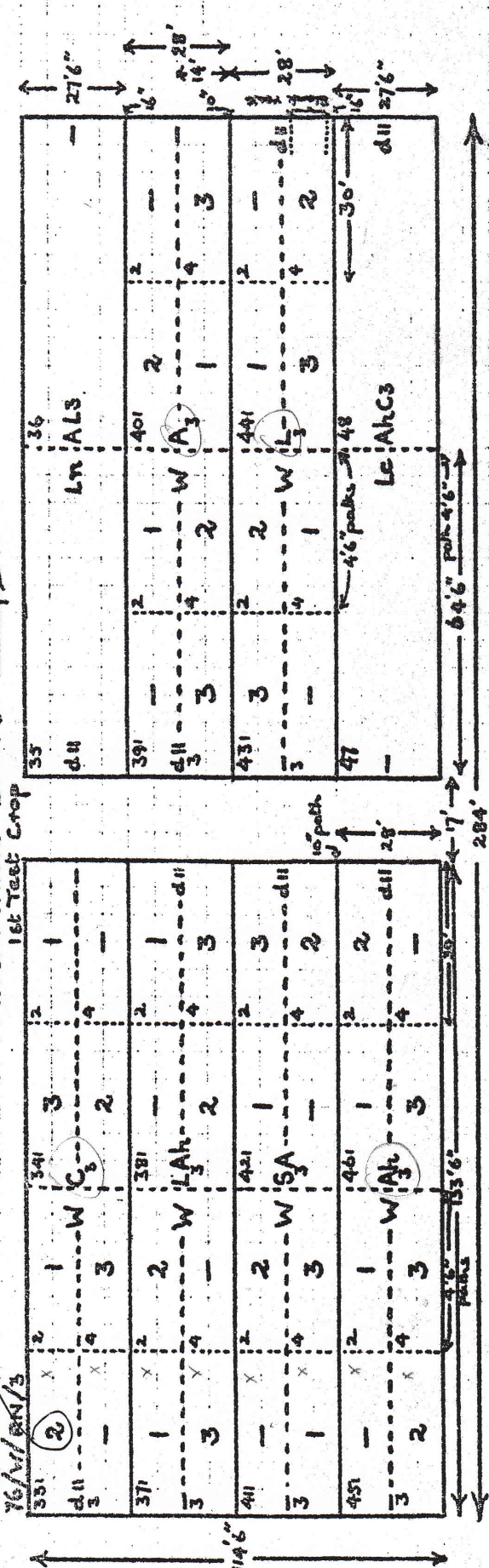
TREATMENTS per acre (hectare)

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 1st Test Crop

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



TREATMENTS per acre (ha/acre)

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

Cropping Winter Wheat Variety: Cappella Sown: 10 Nov

W (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.

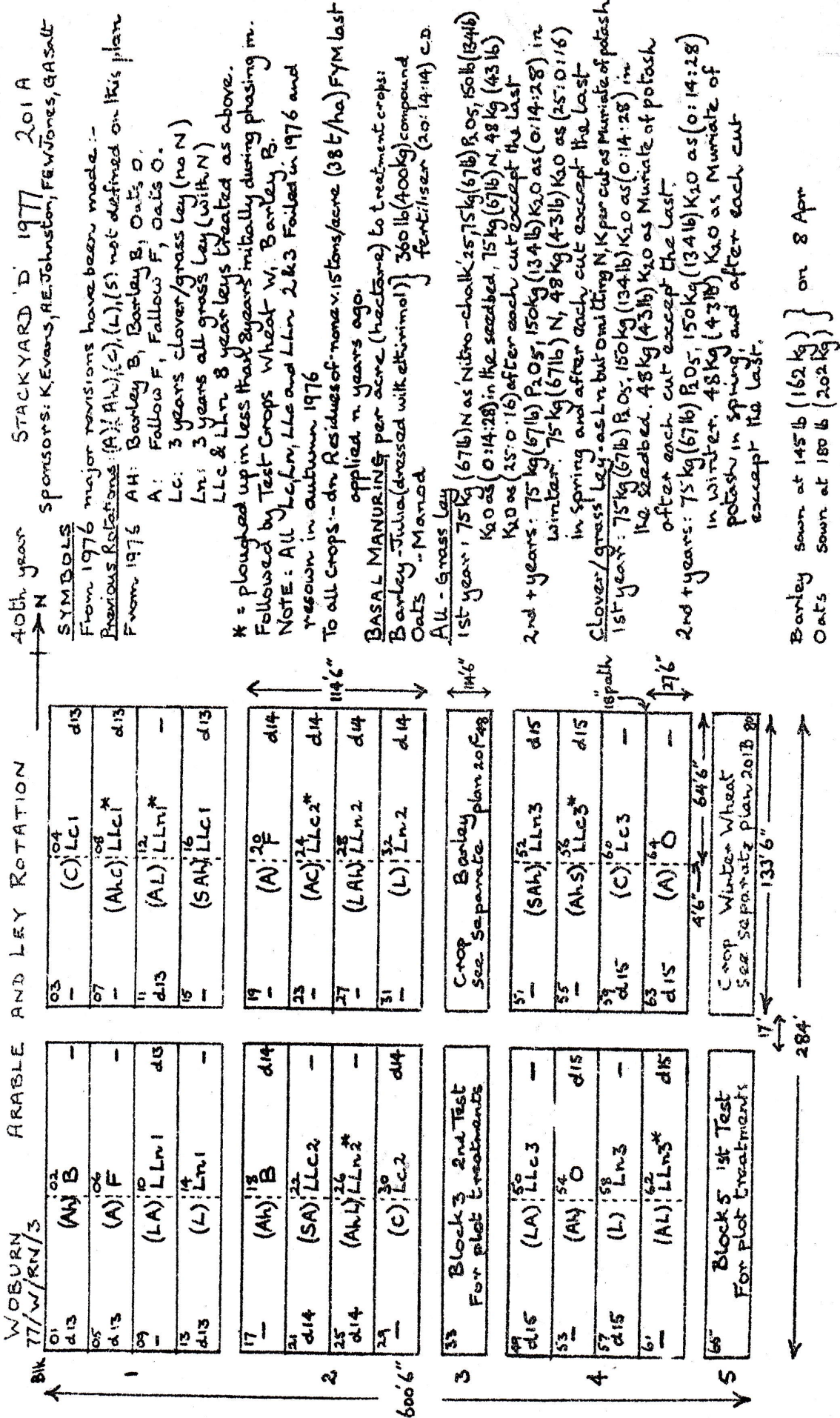
Ley with Clover: Nitro-chalk 25 folay 60 lb (67kg) of muriate of with N only in its seedbed, patch after each cut except the last.

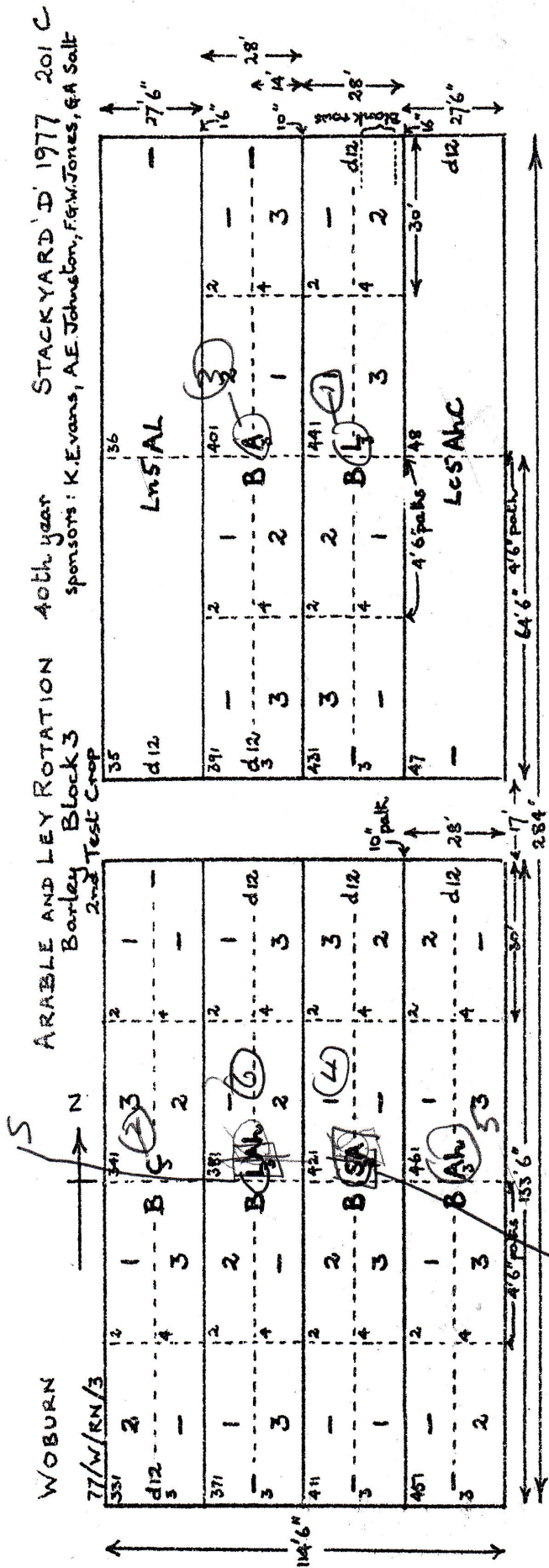
PLOT AREA

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: 27'6" x 64'6" = 0.0407 acre (0.0165 ha)





TREATMENTS per acre (hectare)
FYM residues
- d 12 None, FYM residues - last applied 1966

Cropping Barley Variety: Julia (dressed with alkalimol) Sow date: 14th Feb (162kg) Date: 8 Apr
Ln Ley with N } resown in autumn 1976
Lc Ley with clover } after failure of spring sowing

Nitrogen to Barley
- 1, 2, 3 None, 0.4, 0.8, 1.2 cut N/acre
(50, 100, 150 kg/ha) as Nitro-chalk 25

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

BASAL MANURING per acre (hectare)
Barley: 270lb (300kg) compound fertiliser (0:20:20) a.d.
Ley with N: 74kg (66lb) N, 47kg (42lb) K₂O as (25:0:16) applied in the spring and after each cut except the last
Ley with clover: 48kg (43lb) K₂O 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)

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
 All - Grass ley

1st year: 75kg (67lb) N as Nitro-chalk, 25, 75kg (67lb) P₂O₅, 150kg (134lb) K₂O as (0:14:28) in the seedbed, 75kg (67lb) N, 48kg (43lb) K₂O as (25:0:16) after each cut except the last.

2nd+ years: 75kg (67lb) P₂O₅, 150kg (134lb) K₂O as (0:14:28) in winter and after each cut except the last.
 75kg (67lb) N, 48kg (43lb) K₂O 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 Muriale of potash in winter. 75kg (67lb) P₂O₅, 150kg (134lb) K₂O as (0:14:28) in the seedbed. 48kg (43lb) K₂O as Muriale of potash after each cut except the last.

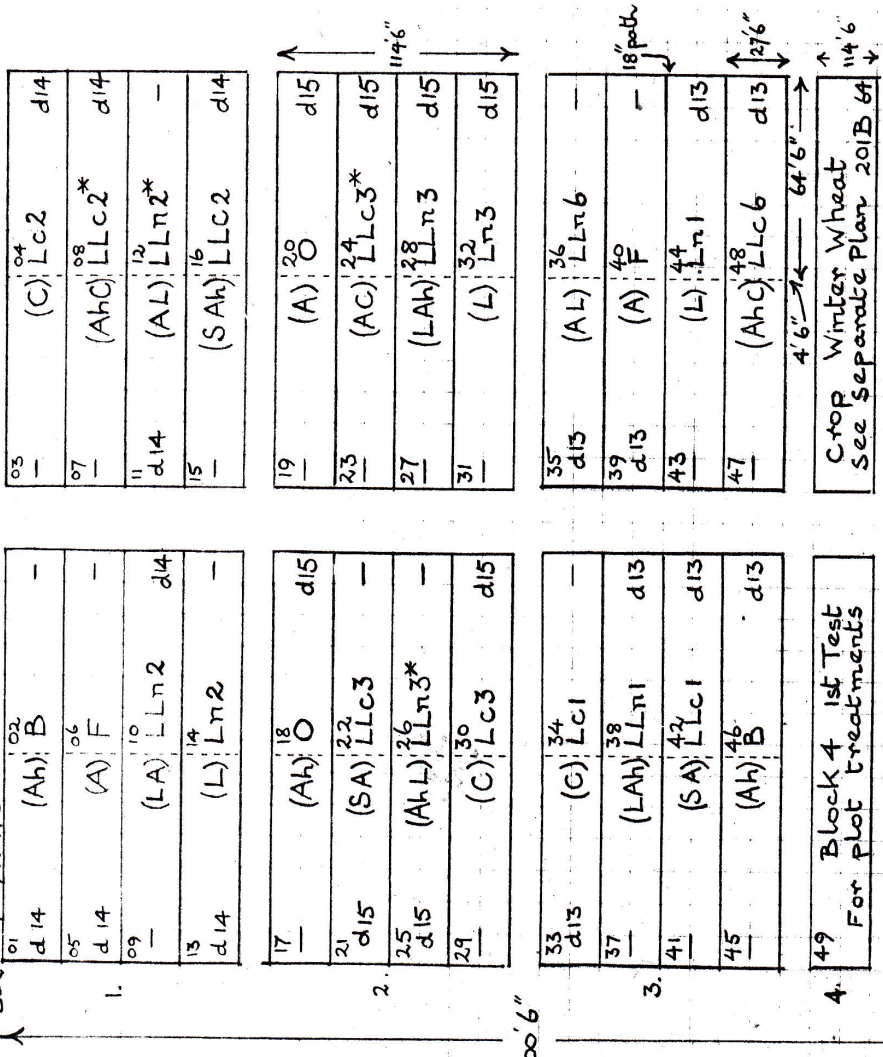
2nd+ years: 75kg (67lb) P₂O₅, 150kg (134lb) K₂O as (0:14:28) in winter in winter. 48kg (43lb) K₂O as Muriale of potash in spring, and after each cut except the last.

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

ARABLE AND LEY ROTATION

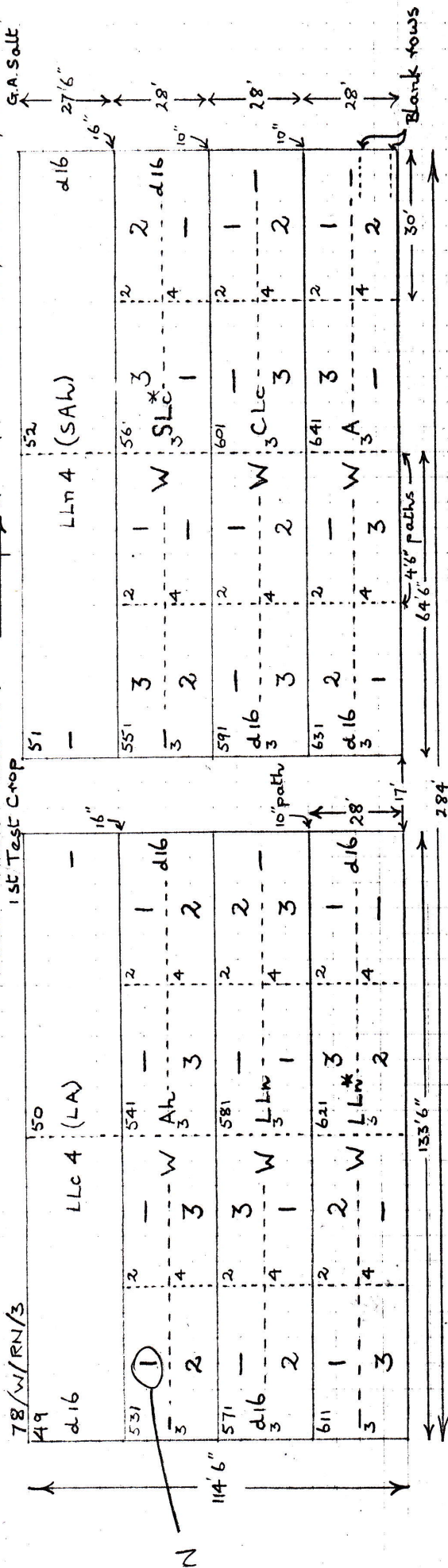
WOBUEN

BK 78/W/RN/3



Crop Winter Wheat See Separate Plan 201B 64
 Crop Barley Plan 201C 80
 17' ←
 284' ←

WOBURN 78/W/RN/3 ARABLE AND LEY ROTATION 41ST year STACKYARD 'D' 1978 201B
 Winter Wheat Block 4 1ST Test Crop N 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

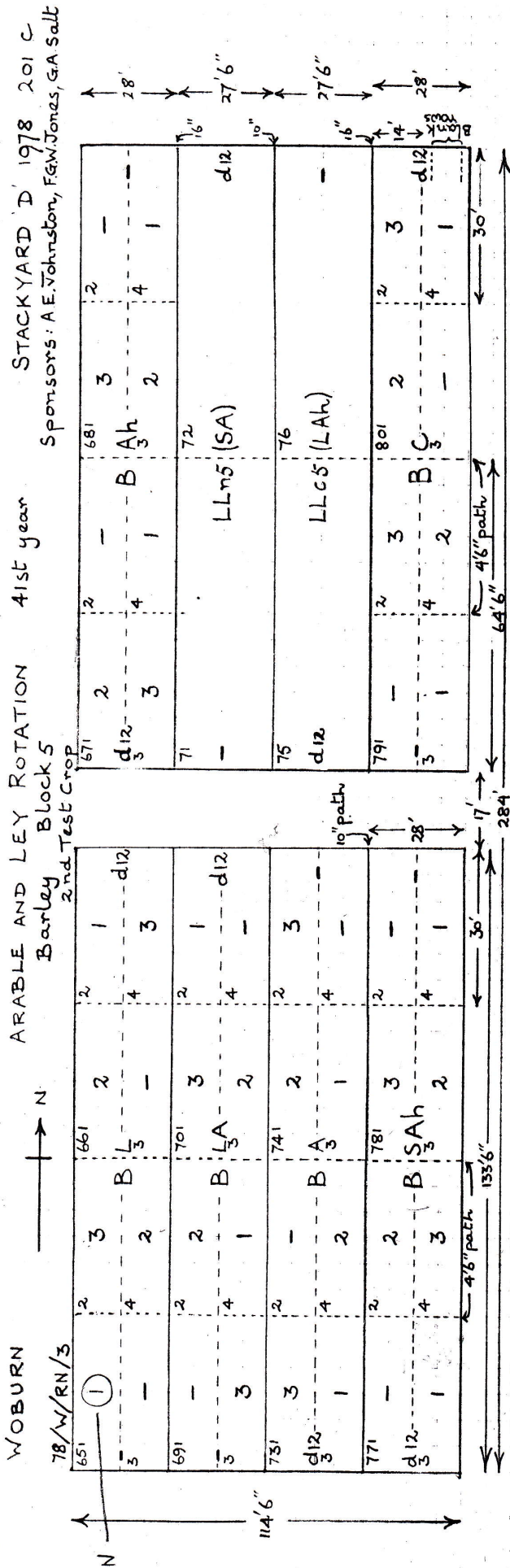
Other crop symbols - see main plan

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) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in winter
 75 kg (67 lb) N, 48 kg (43 lb) K₂O as (25:0:16) applied in spring and after each cut except the last.
 Ley with clover: 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in winter.
 48 kg (43 lb) K₂O 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
 Aldicarb 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) K₂O as (25:0:16) applied in the Spring and after each cut except the last.
 Ley with clover: 48 kg (43 lb) K₂O as muriate of potash in the spring and after each cut except the last.

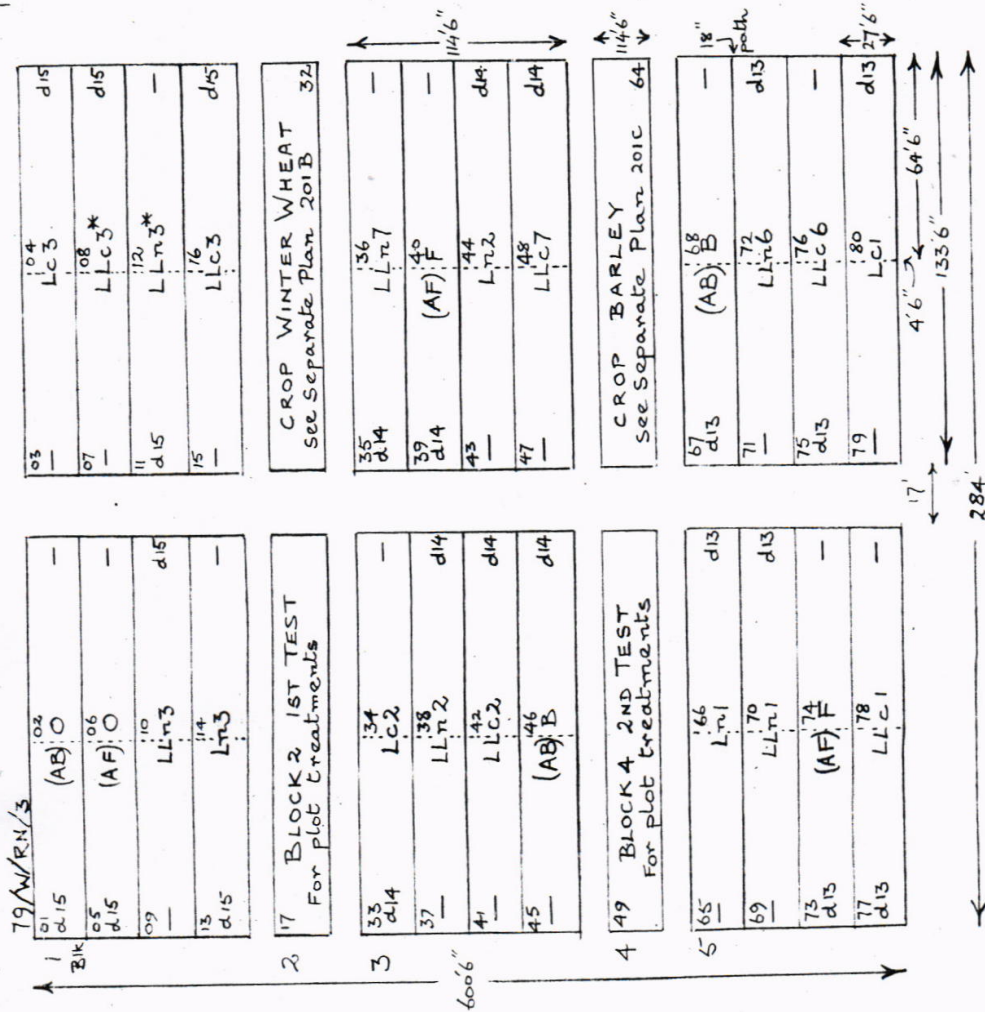
PLOT AREA

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 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

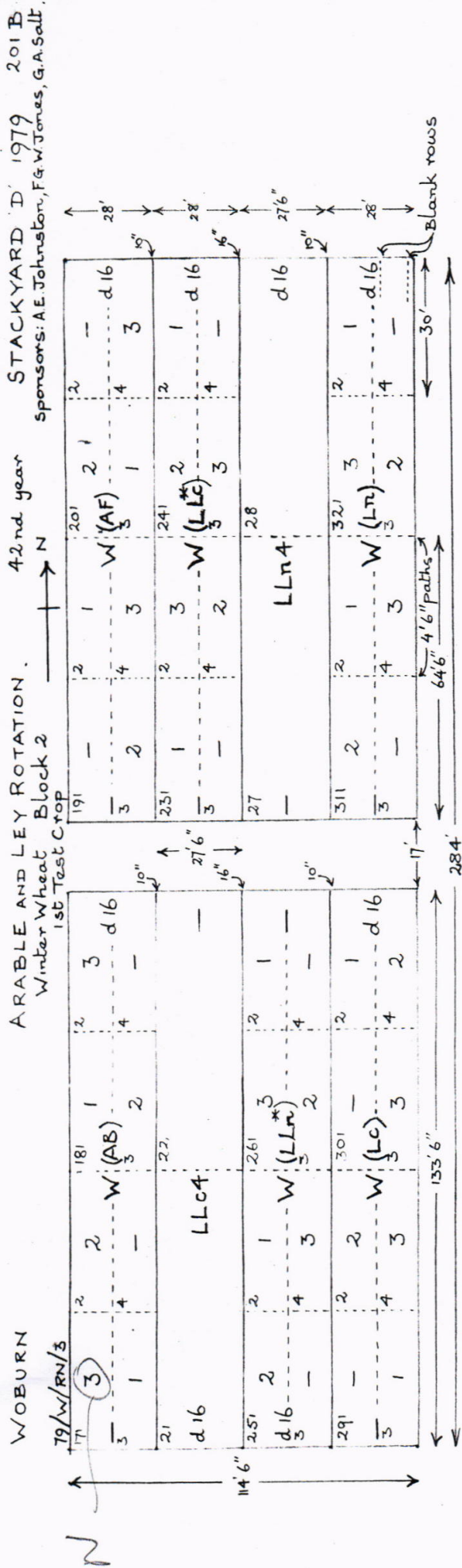
Barley and Oats 360 lb (400 kg) compound fertiliser (20:14:14) c.d.

ALL Grass Ley

1st year: 75 kg (67 lb) N as Nitro-chalk, 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in the seedbed, 75 kg (67 lb) N, 48 kg (43 lb) K₂O as (25:0:16) after each cut except the last.
 2nd + years: 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in winter 75 kg (67 lb) N, 48 kg (43 lb) K₂O as (25:0:16) in spring, and after each cut except the last.

Clover/grass ley

1st year: 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in the seedbed, 48 kg (43 lb) K₂O as muriate of potash after each cut except the last.
 2nd + years: 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in winter, 48 kg (43 lb) K₂O as muriate of potash in spring, and after each cut except the last.



TREATMENTS per acre (hectare)
- d 16 None, FYM residues - last applied 1963

Cropping
W Winter wheat Variety: Flanders
Sown at: 160lb (180kg) Date: 9 Nov.
Other crop symbols - see main plan

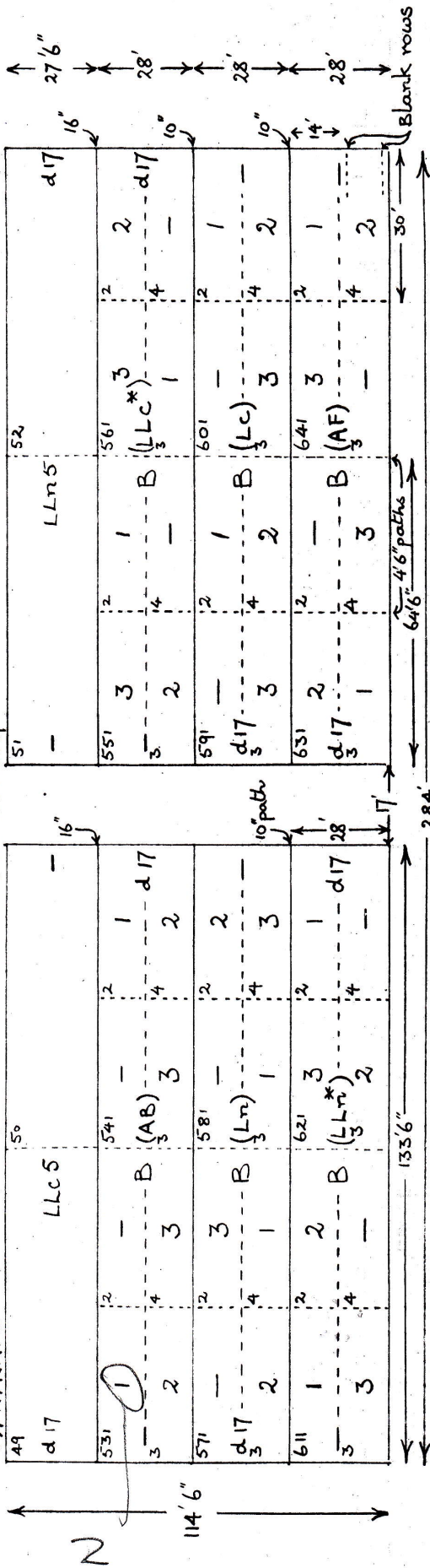
Nitrogen to Winter Wheat
- 1, 2, 3 None, 0.5, 1.0, 1.5 cwt N
(63, 126, 189kg) N
* Previously in the alternating rotation

STANDARD APPLICATION to winter wheat only
Aldicarb at 10 kg/ha (9 lb/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) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in winter.
75 kg (67 lb) N, 48 kg (43 lb) K₂O as (25:0:16) applied in spring and after each cut except the last.
Ley with clover: 75 kg (67 lb) P₂O₅, 150 kg (134 lb) K₂O as (0:14:28) in winter.
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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)

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: Porthos (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 8 yr leys-treated as 3 yr leys (1:4:1) 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) K₂O as (25:0:16) applied in the Spring and after each cut except the last
 Ley with clover: 48kg (43lb) K₂O as muriate of potash in the Spring and after each cut except the last.

PLOT AREA
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