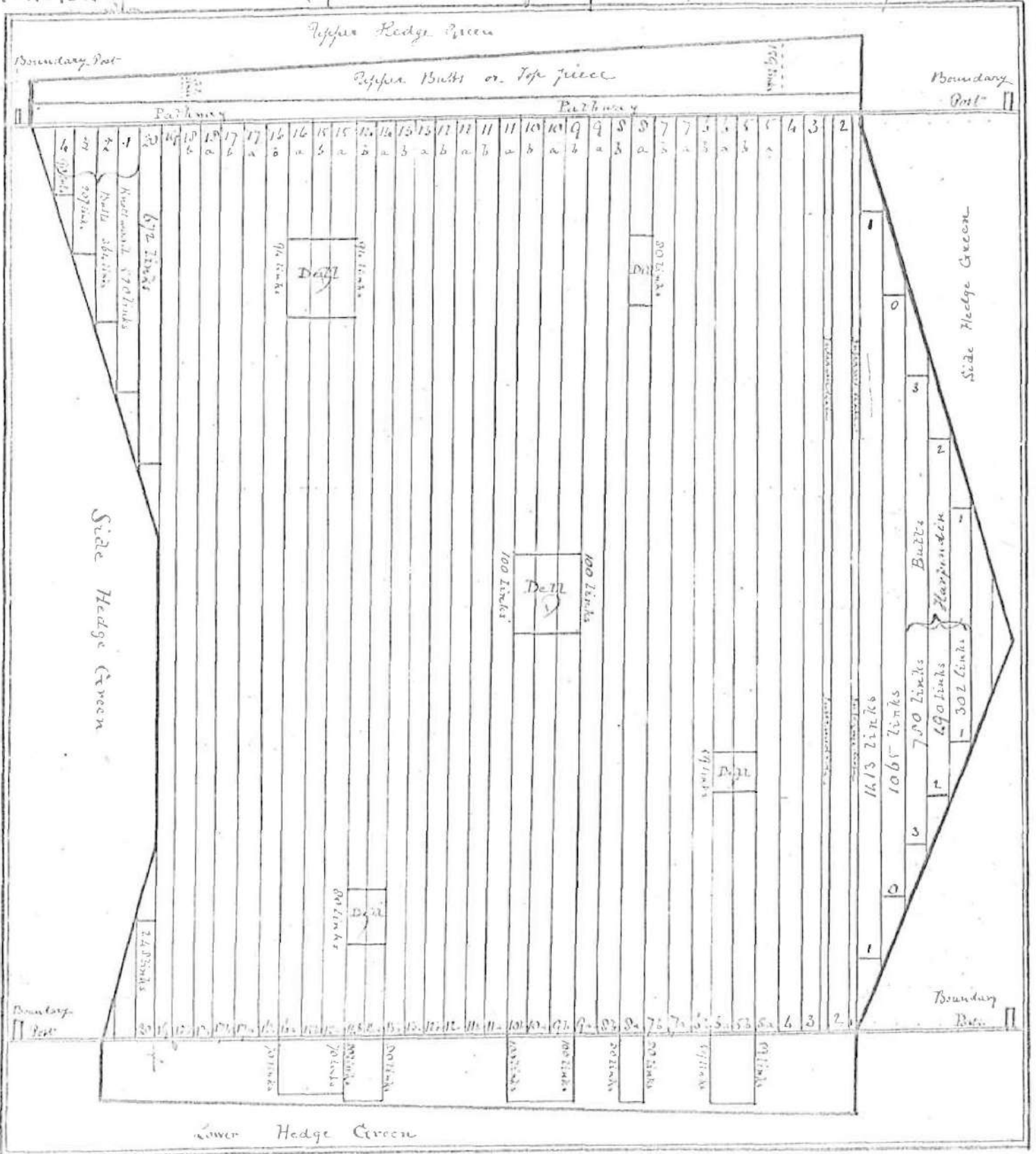


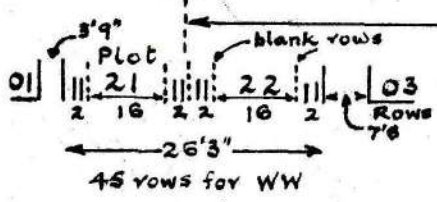
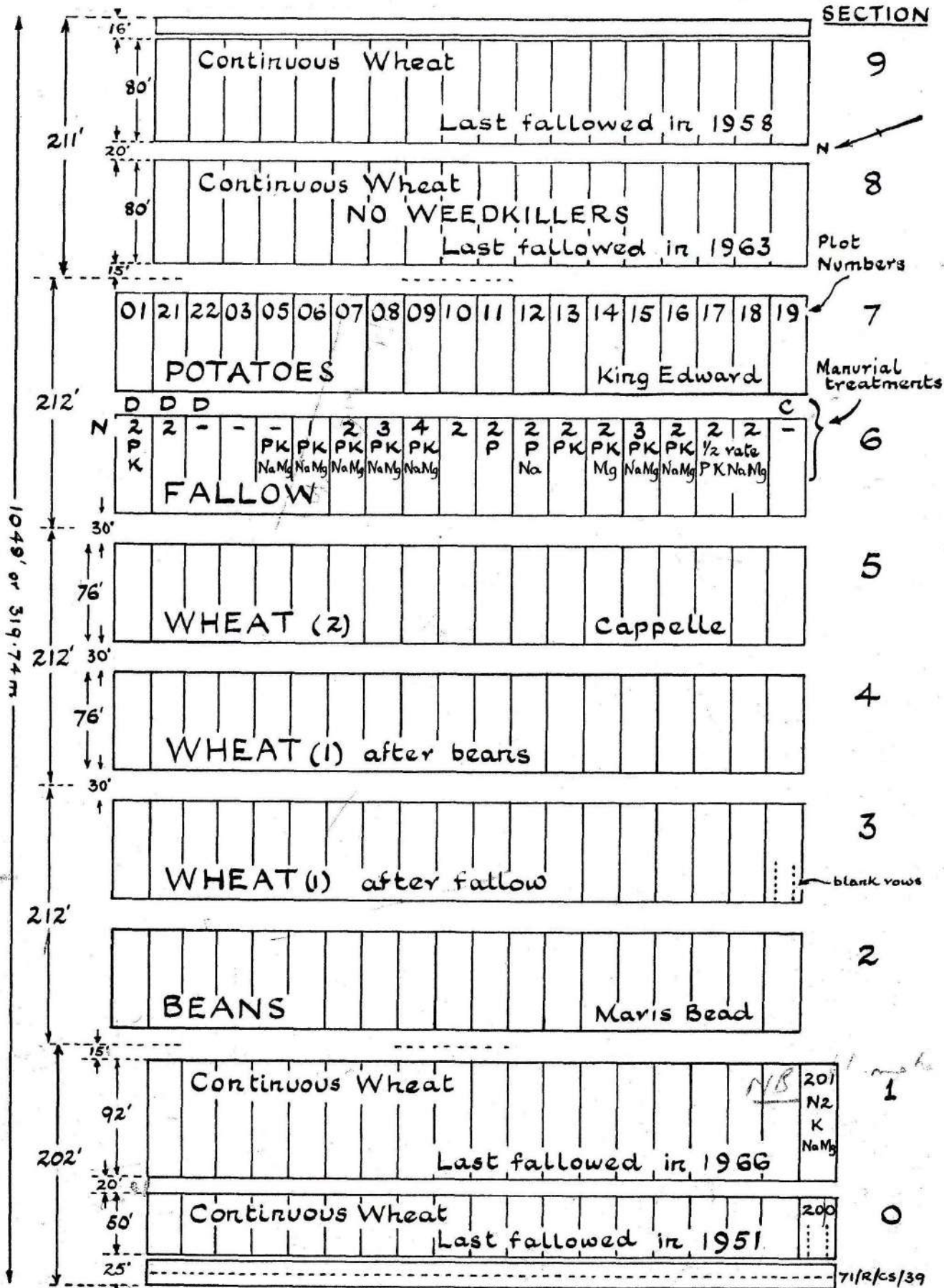
Sketch of Broadbalk field with length of Butts, &c. August 1851.



71/R/BK/1

BROADBALK 1971

Drain

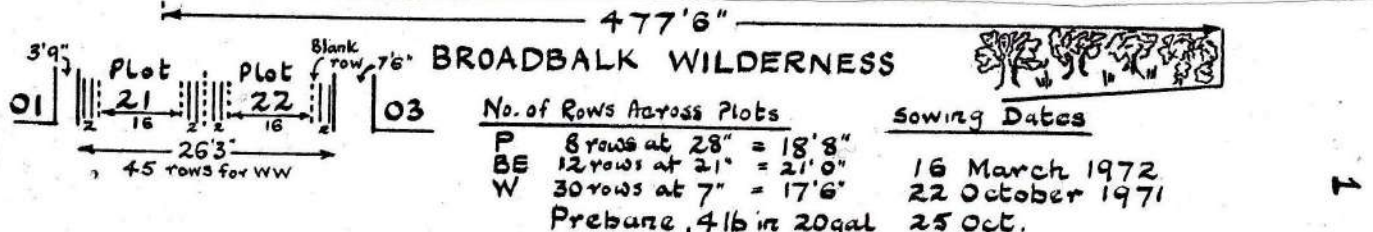
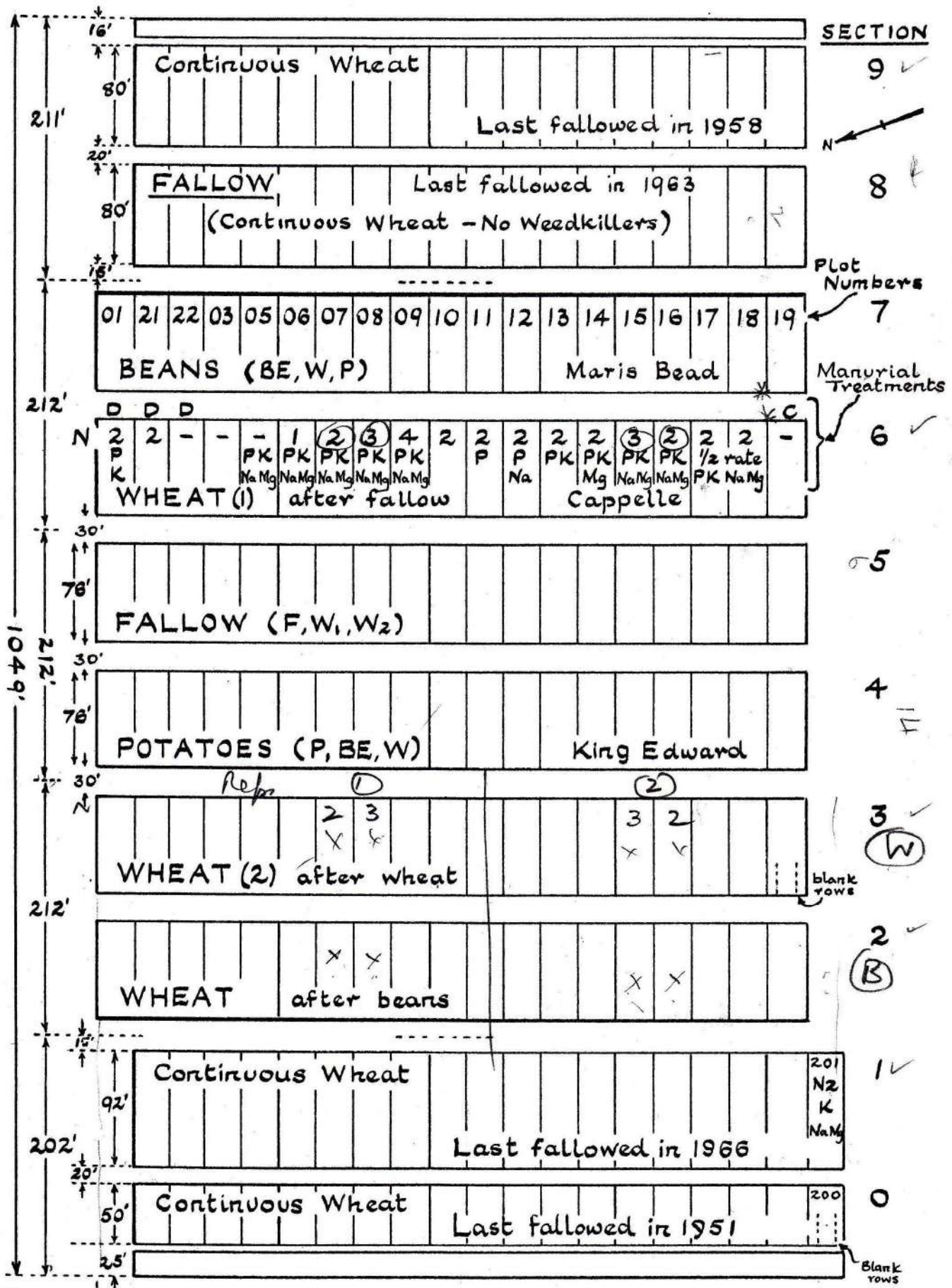


477'6" or 145.54m
 (319.74m x 145.54m = 4.65 ha)

BROADBALK WILDERNESS

N^o. of rows across plots
 W 30 rows at 7" = 17'6"
 P 8 rows at 28" = 18'8"
 Be 12 rows at 21" = 21'

Sowing Dates
 W 9 Oct 1970 (TD 8 Apr.)
 P 3 Apr 1971
 Be 25 Feb 1971



BROADBALK

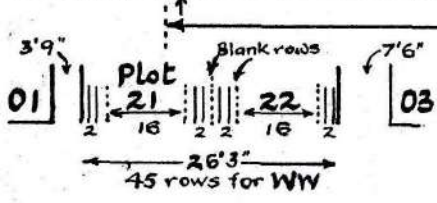
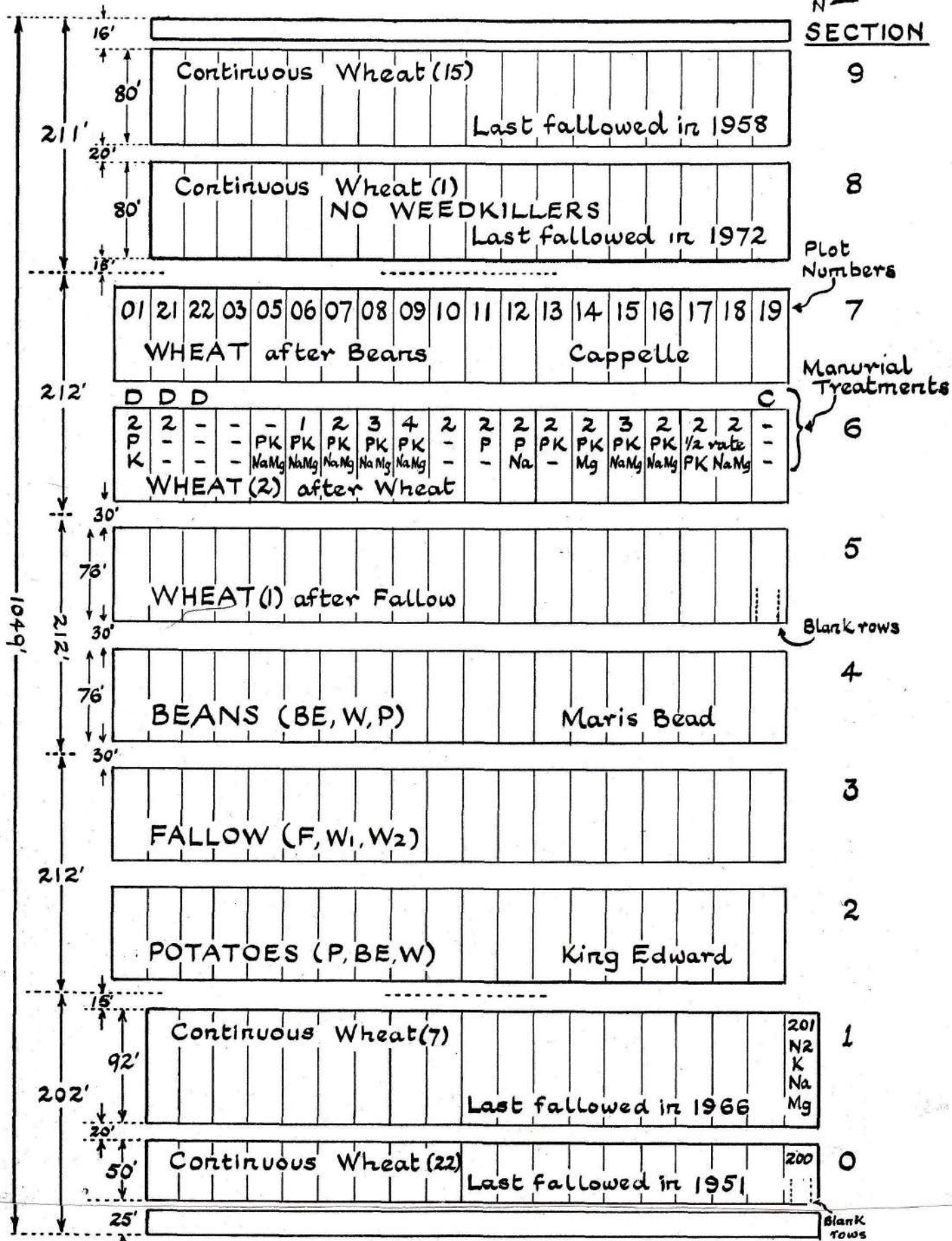
1973

73/R/BK/1

DRAIN



SECTION



477'6"

BROADBALK WILDERNESS

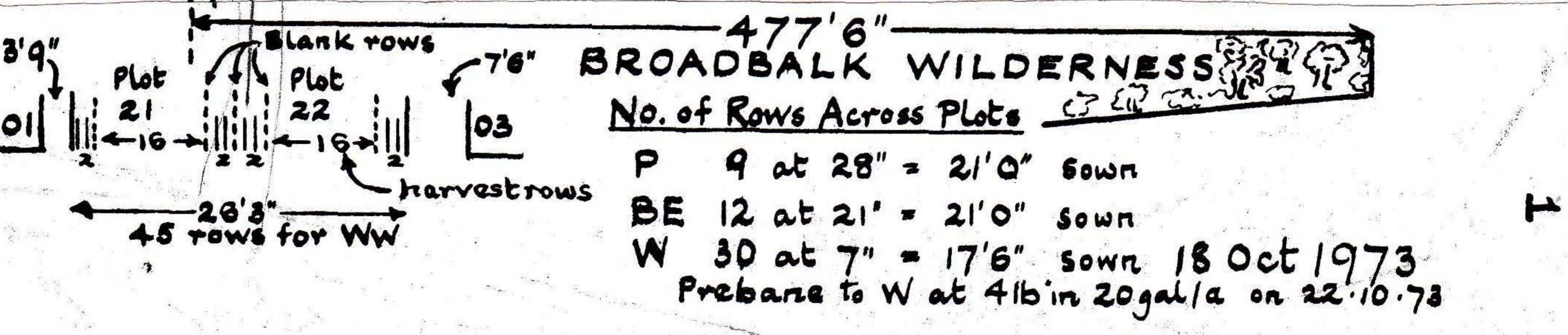
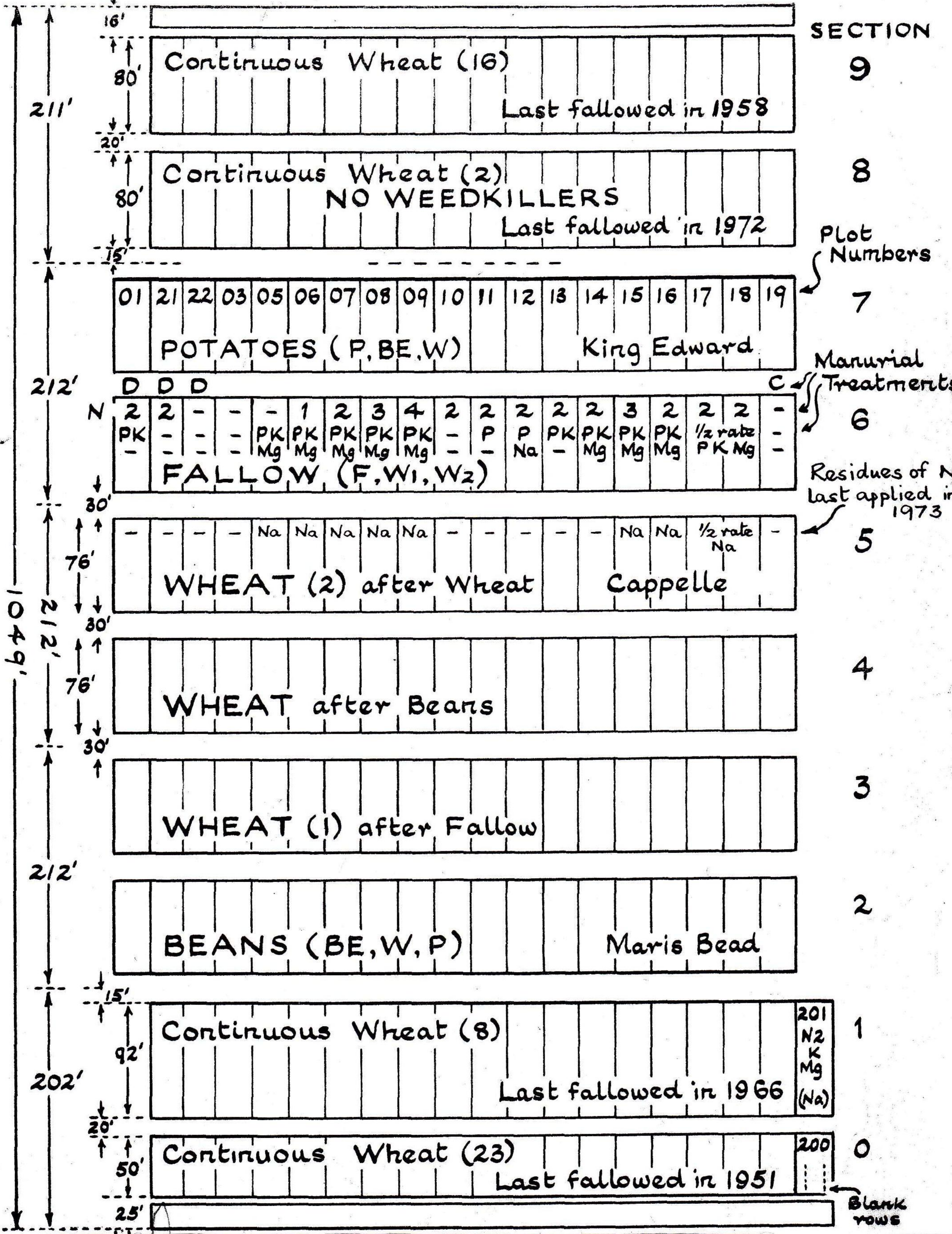
No of Rows Across Plots
 P 8 rows at 28" = 18'8" sown: P
 BE 12 rows at 21" = 21'0" BE 9 Mar 1973
 W 30 rows at 7" = 17'6" W 17 Oct 1972.

BROADBALK

1974

74/R/BK/1

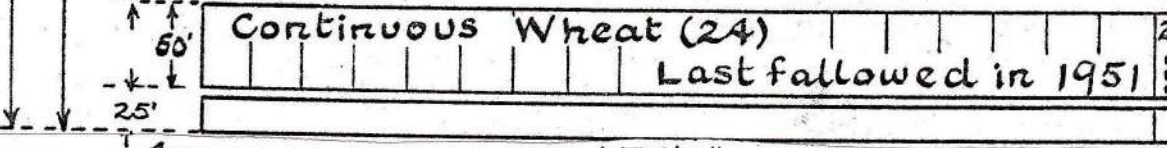
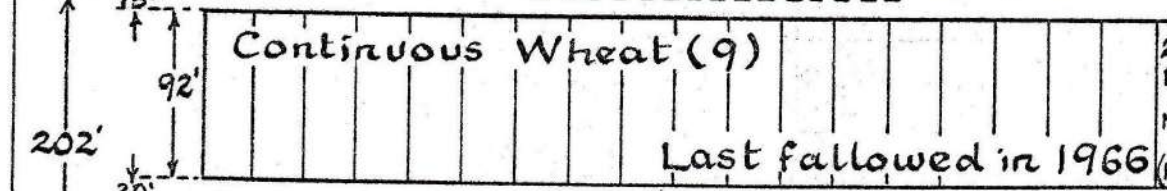
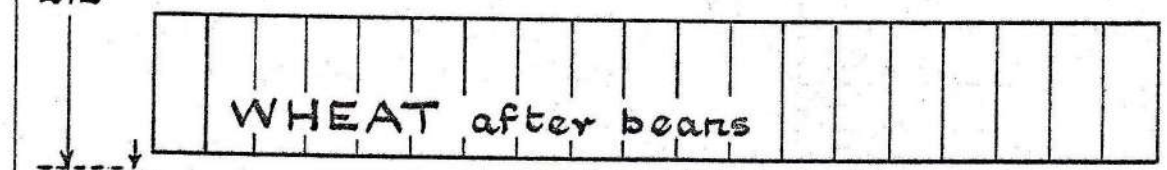
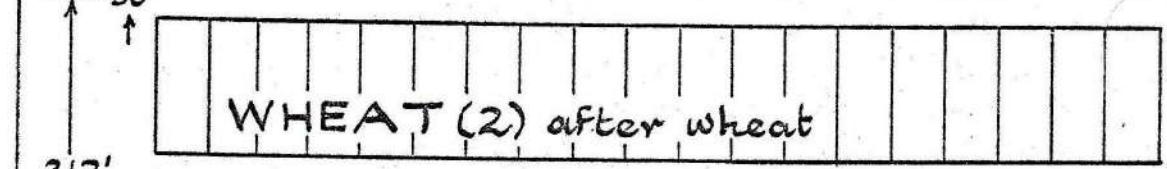
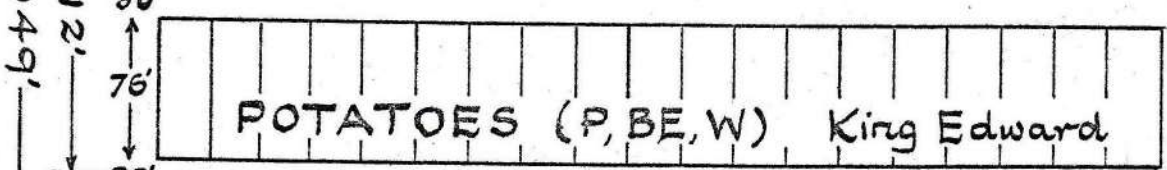
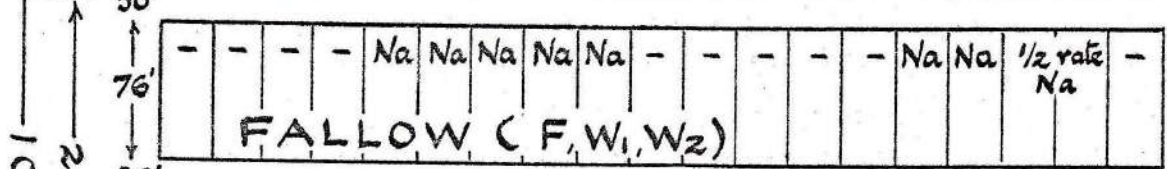
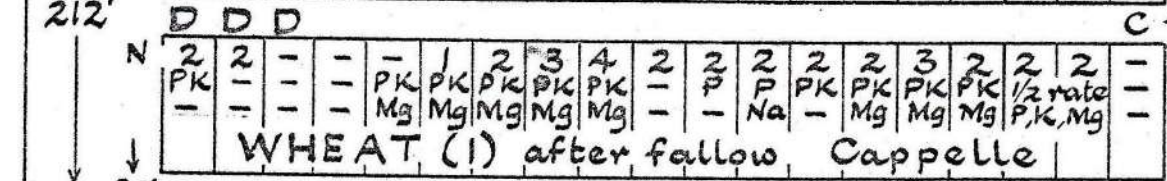
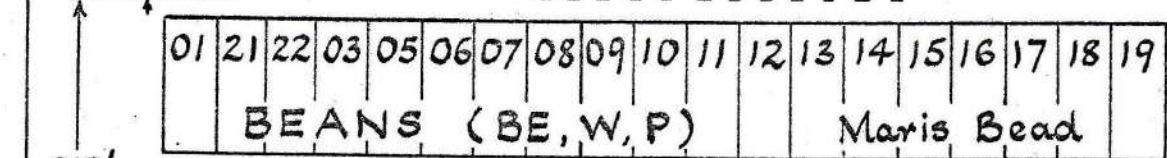
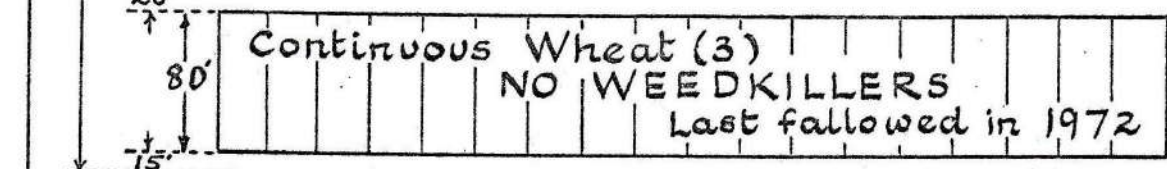
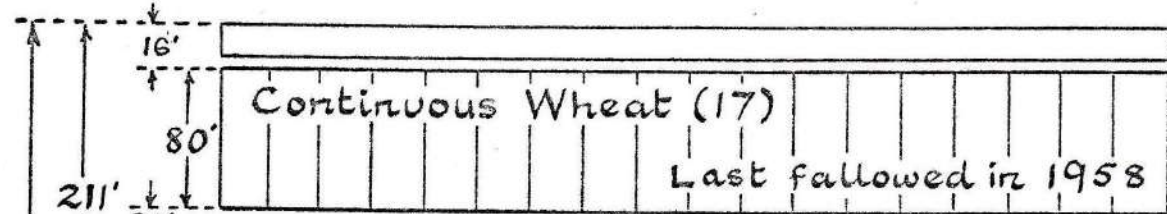
DRAIN



DRAIN



SECTION 9

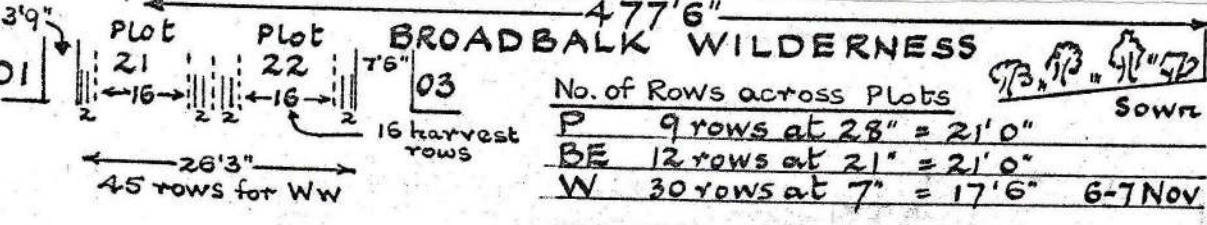


Plot Numbers

Manurial Treatments

Last applied in 1973

Blank rows

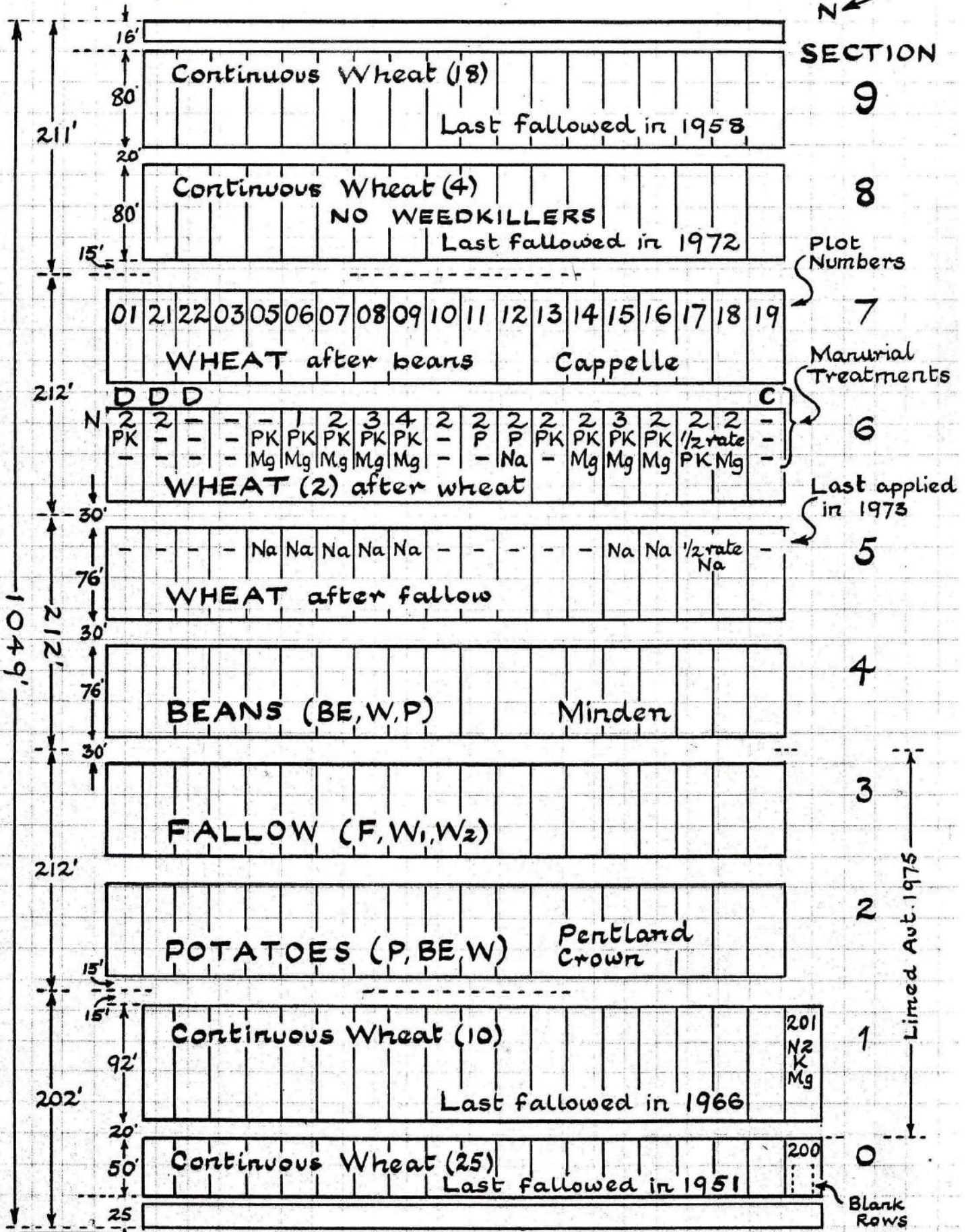


76/R/BK/1

BROADBALK

1976

DRAIN



SECTION 9

SECTION 8

Plot Numbers

SECTION 7

Manurial Treatments

SECTION 6

Last applied in 1973

SECTION 5

SECTION 4

SECTION 3

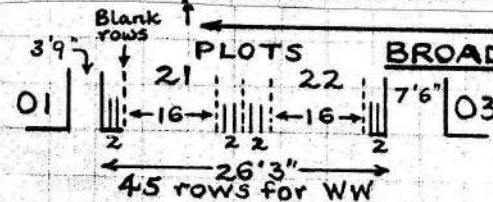
SECTION 2

SECTION 1

SECTION 0

Blank Rows

Limed Aut. 1975



BROADBALK WILDERNESS

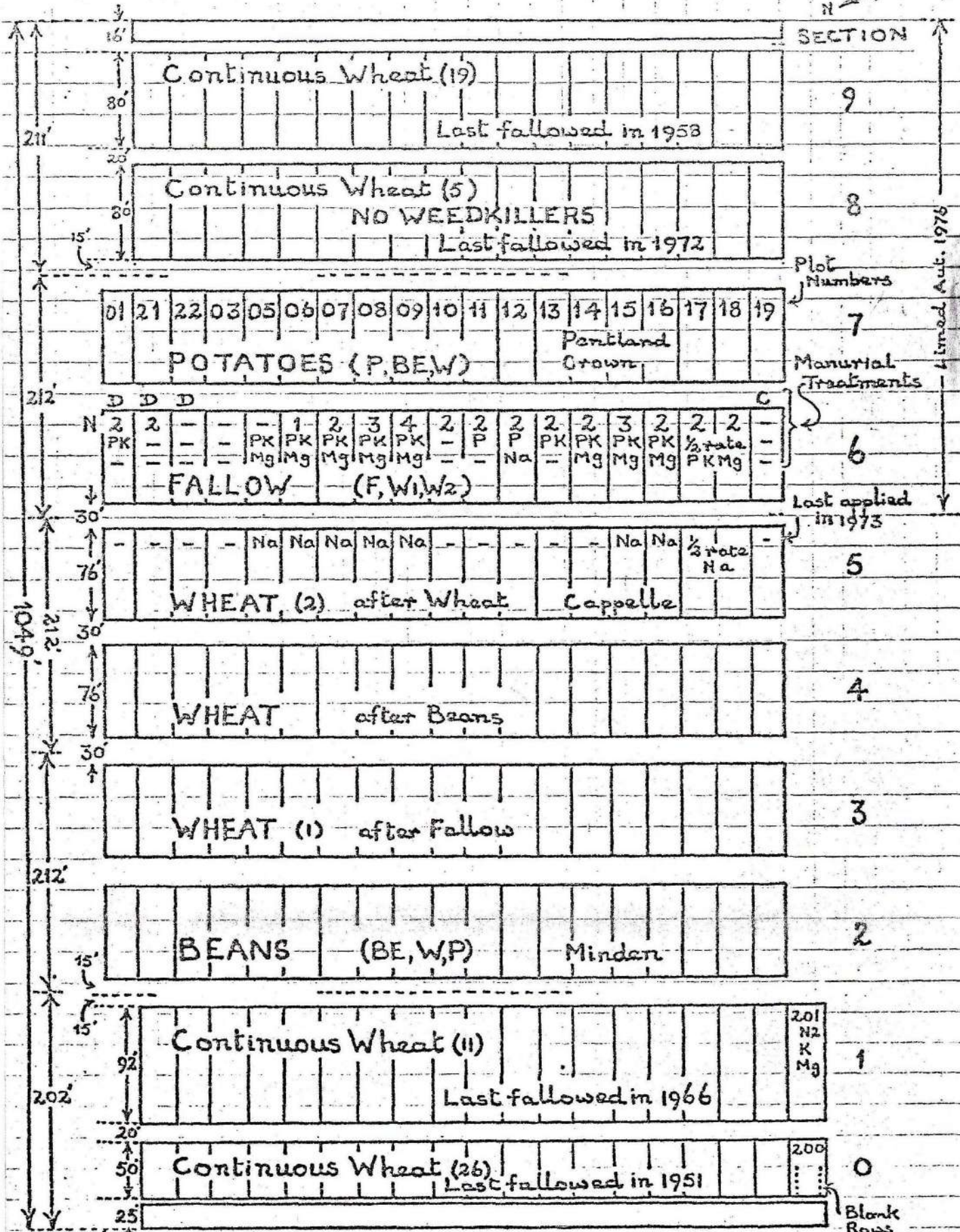
No. of rows across plots

- P 9 rows at 28" = 21'0"
 - BE 12 rows at 21" = 21'0" : 4 Mar 1976
 - W 30 rows at 7" = 17'6" : 16 Oct. 1975
- Prebare applied : 18 Oct.
24 Sep. 1975 glyphosate appl. to Sections 0, 1, 9



DRAIN

N



SECTION

9

8

7

6

5

4

3

2

1

0

Blank Rows

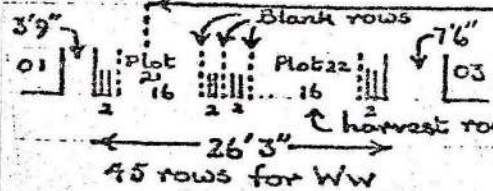
Plot Numbers

Manurial Treatments

Last applied in 1973

Limed Aug. 1976

1049



BROADBALK WILDERNESS

No. of Rows Across Plots

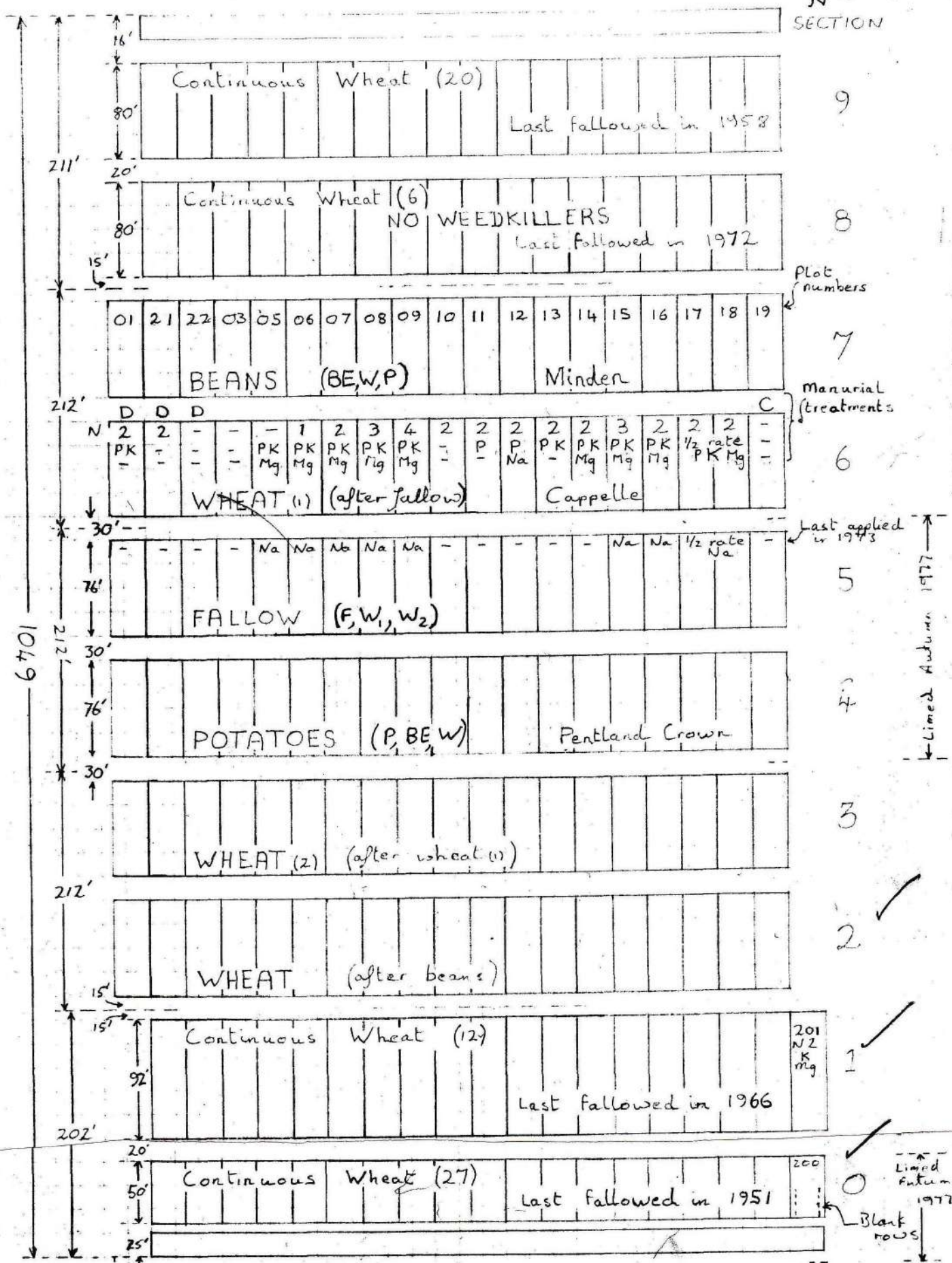
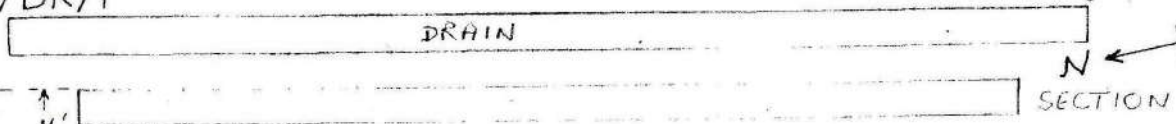
- P 9 rows at 28" = 21' 0" Planted 19 Apr 1977
- BE 10 rows at 21" = 17' 6" Sown 10 Mar 1977
- W 30 rows at 7" = 17' 6" Sown 23 Nov 1976

(AEJ, JM, RDP)

BROADBALK

78/R/BK/1

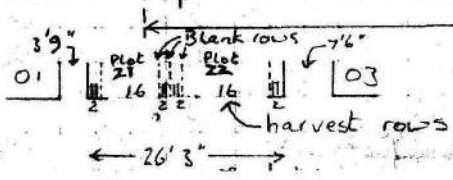
1978



1049

Limed Autumn 1977

Blank rows
Limed Autumn 1977



BROADBALK WILDERNESS

No. of Rows Across Plots

P 9 rows at 28" = 21'0" Planted

BE 10 rows at 21" = 17'6" Sown 10 March

1978

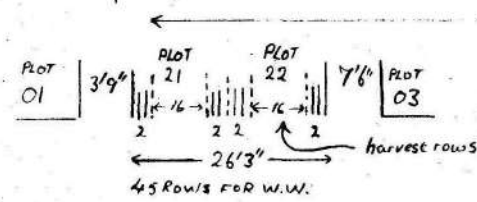
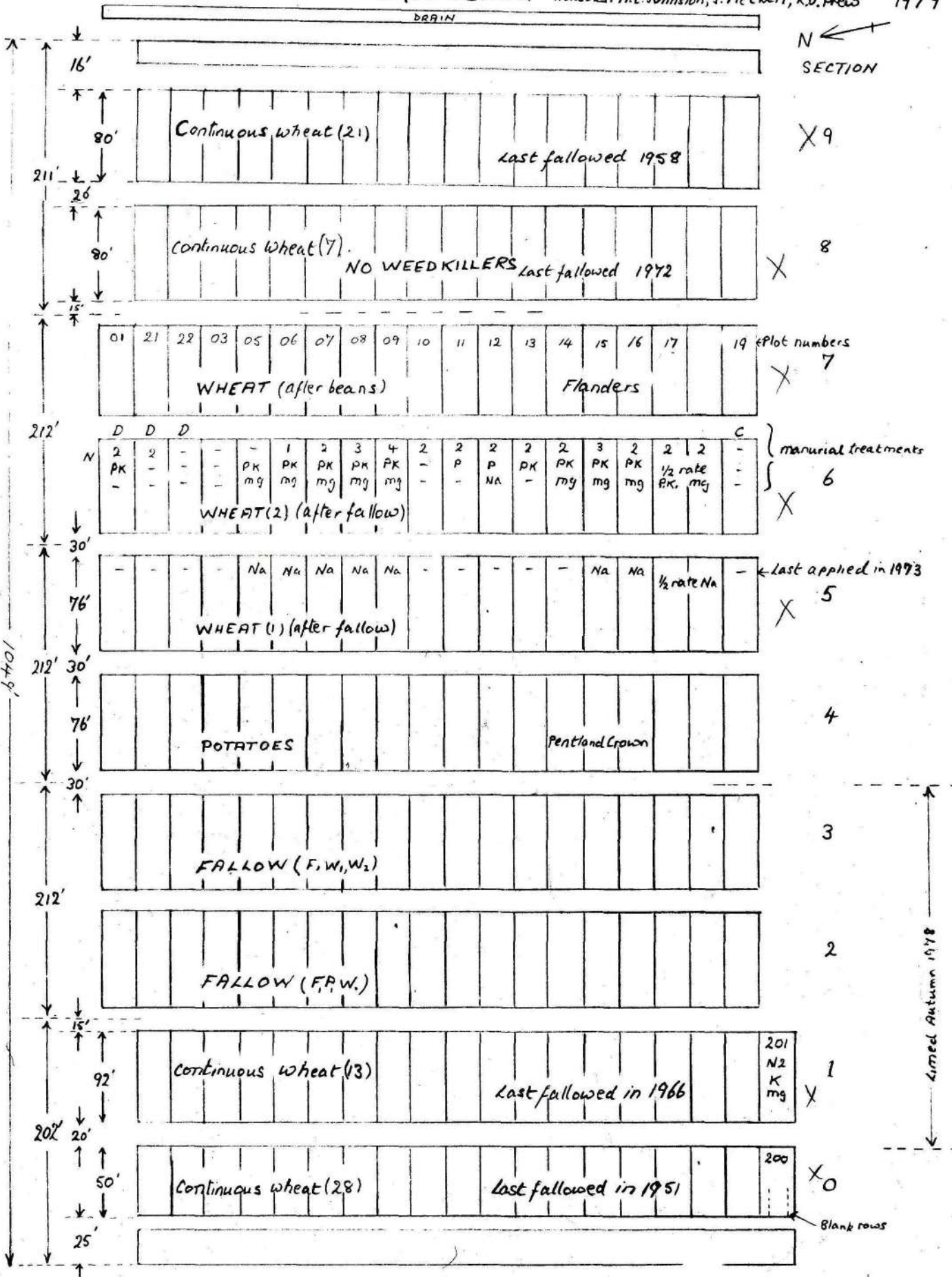
(1)

79/R/BK/11

BROADBALK

SPONSORS: A.E. Johnston, T. Mc Ewen, R.D. Prew

1979



NO. OF ROWS ACROSS PLOTS

P, 9 rows at 28" = 21' 0"
W, 30 rows at 7" = 17' 6"

Wheat sown: 10 October, 1978

80/R/BK/1

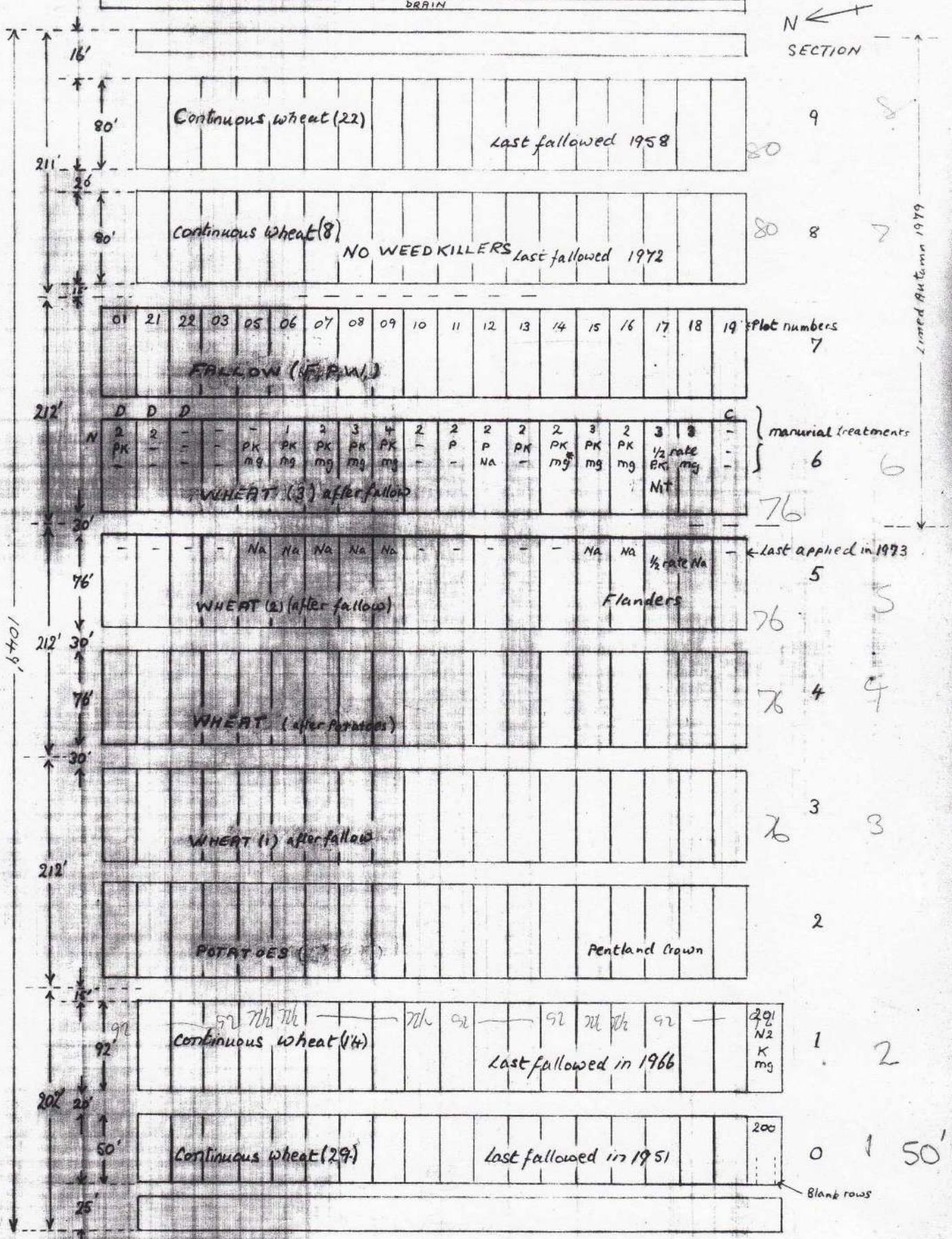
BROADBALK

SPONSORS: A.E. Johnston, J. McEwen, R.D. Prew

1980

DRAIN

N
SECTION



Limited Autumn 1979

6401

01	21	22	03	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	Plot numbers	
FALLOW (15 P.W.)																			7	
D D D																			} manual treatments	
N	2	-	-	-	1	2	3	4	2	2	2	2	3	2	3	3	-	C		6
	PK	-	-	PK	PK	PK	PK	PK	-	P	P	PK	PK	PK	PK	1/2 rate	PK	-		6
				mg	mg	mg	mg	mg			NA		mg	mg	mg	MIT				76

-	-	-	-	Na	Na	Na	Na	Na	-	-	-	-	-	Na	Na	1/2 rate	Na	-	last applied in 1973
WHEAT (2) after fallow																			5
Flanders																			76

WHEAT (after potatoes)																			76	4	4
------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	---	---

WHEAT (1) after fallow																			76	3	3
------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	---	---

POTATOES (Pentland Crown)																			2
---------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

Continuous wheat (14)																			1	2
Last fallowed in 1966																				

Continuous wheat (29)																			0	1	50'
Last fallowed in 1951																					

Blank rows

477'6"

BROADBALK WILDERNESS



NO. OF ROWS ACROSS PLOTS
 P. 9 rows at 29" = 21' 0"
 W. 30 rows at 7" = 17' 6"
 sown 14 October

Mg Kieserite every year (large rate)
 mg Kieserite every 3rd year (small rate)
 Nit N1 C-2 with food every other year
 alternating with plot 12 (excepting
 follows previous 12 months)

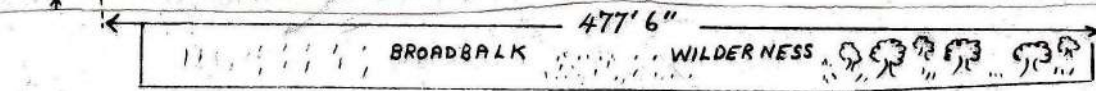
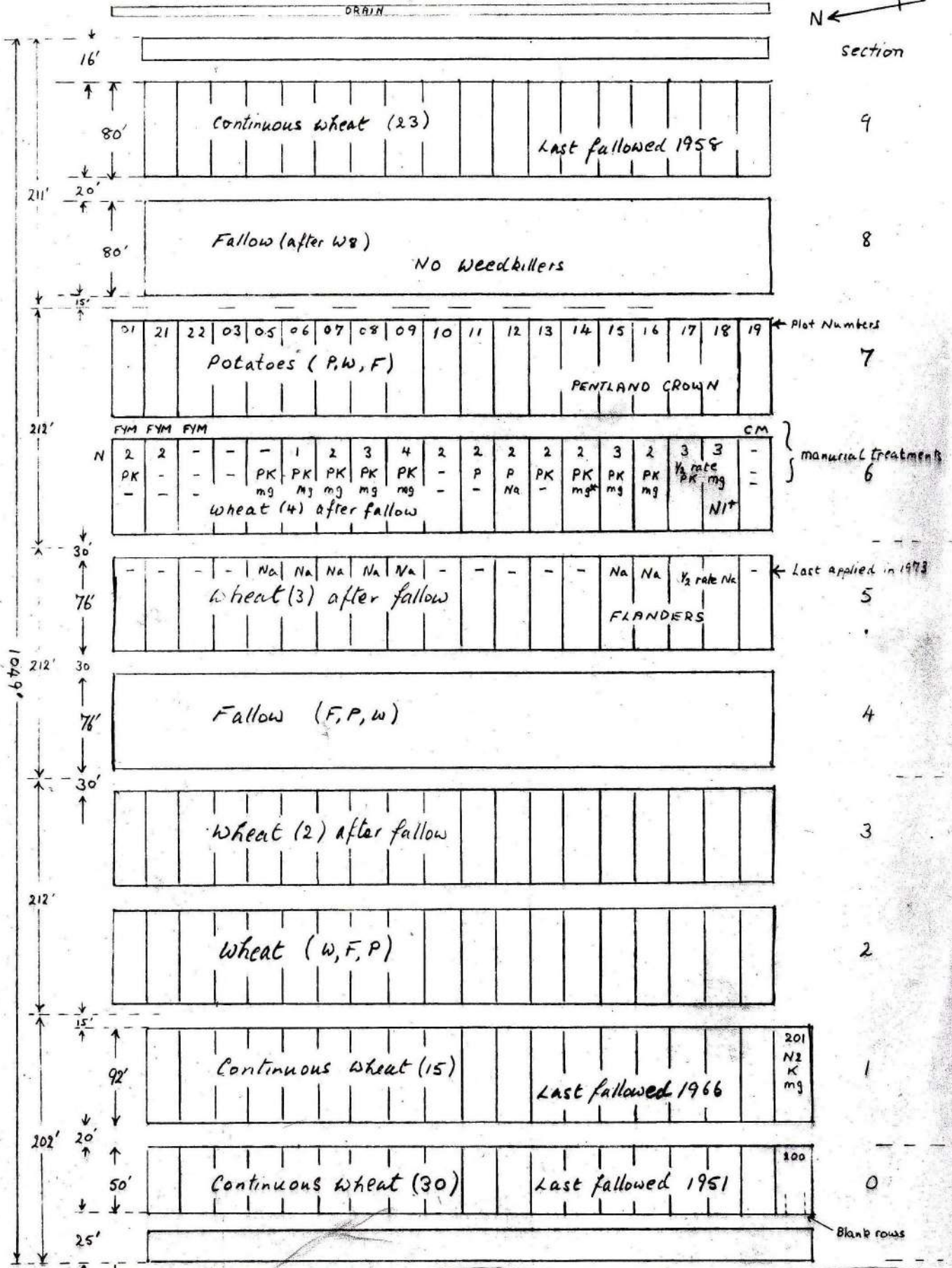
81/R/BK/1

BROADBALK

Sponsors: A.E. Johnston, J. McEwen, R.D. Prew

1981

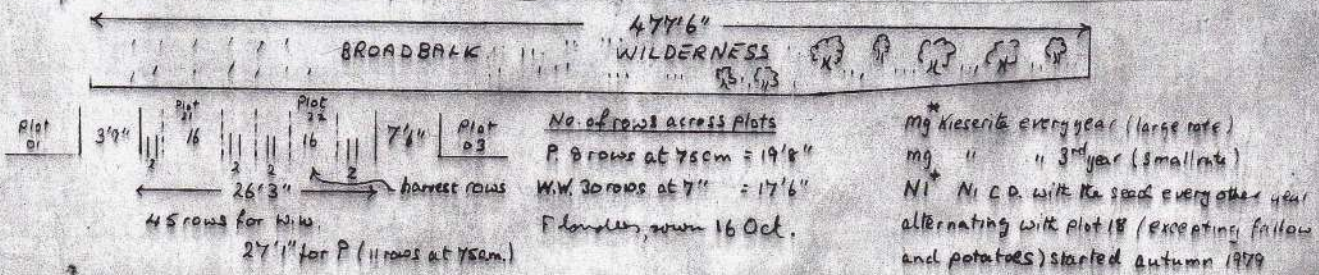
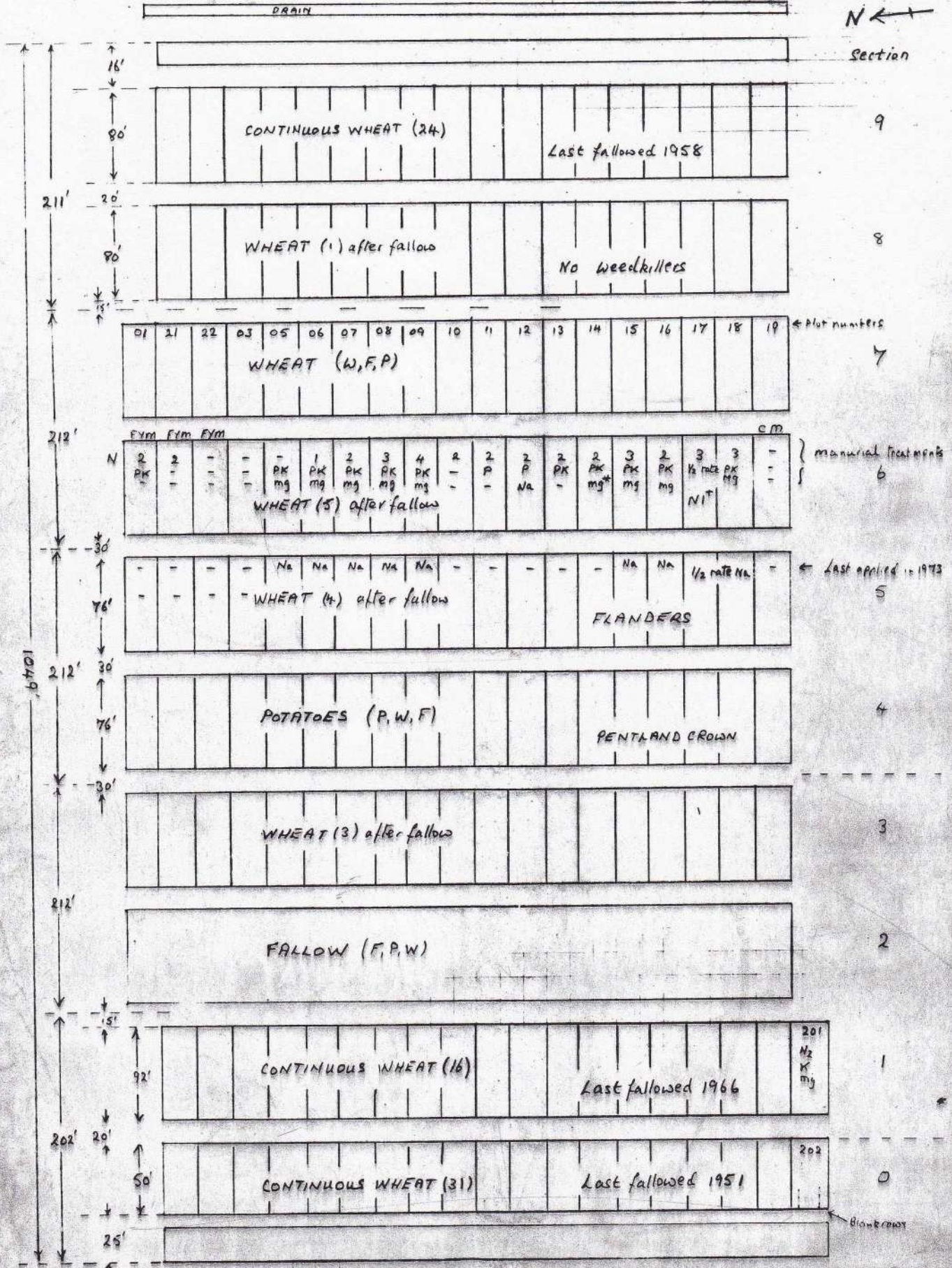
N ←

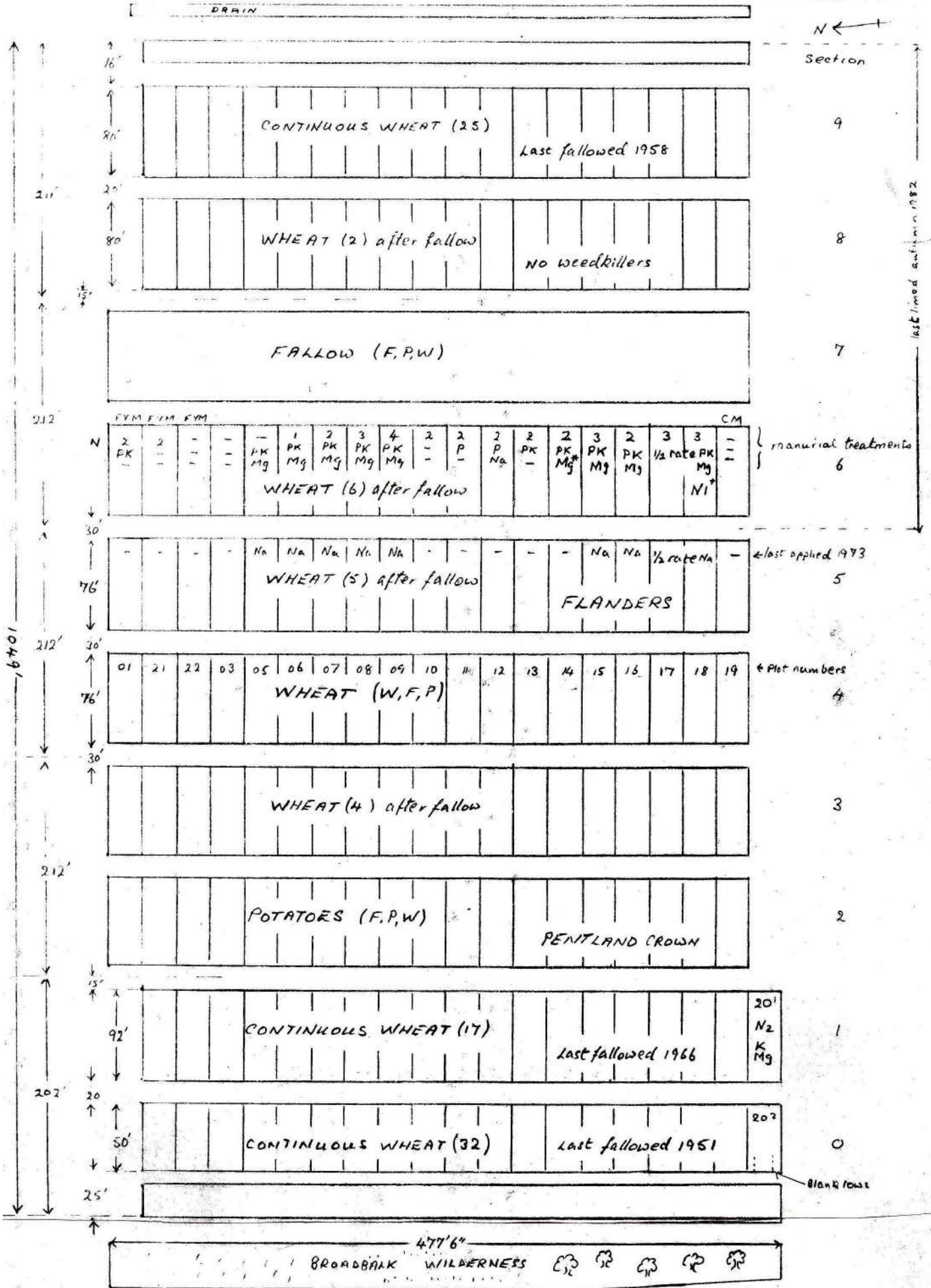


mg* Kieserite every year (large rate)
 mg Kieserite every 3rd year (small rate)
 NI[†] Ni C.D. with seed every other year alternating with Plot 17 (excepting fallow + potatoes) Started Autumn 1979

Nos. of rows across Plots
 P, 8 rows at 7.5cm = 19' 8"
 W, 30 rows at 7" = 17' 6"

Wheat sown: 1 October

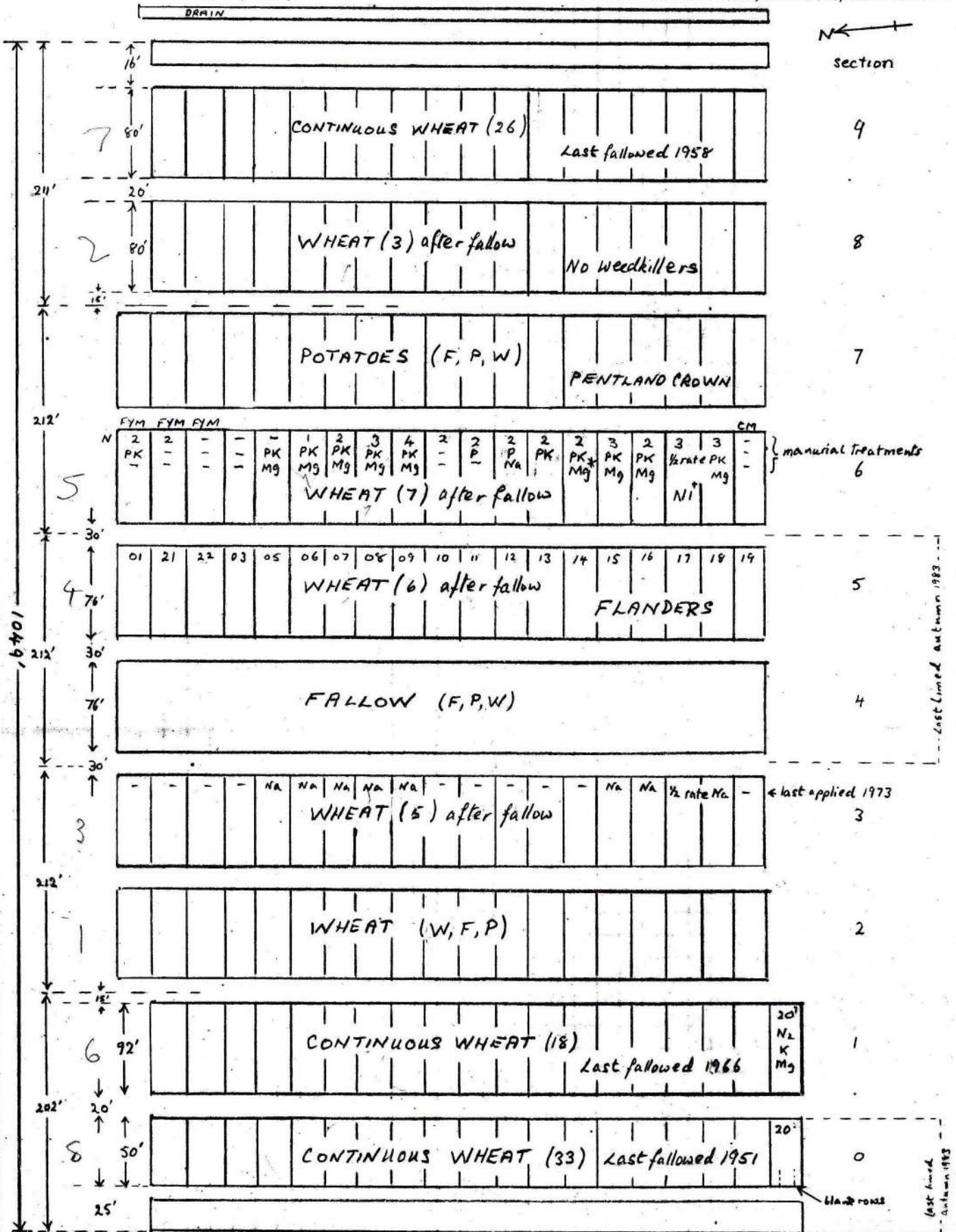




Plot 01 39' | Plot 21 16' | Plot 22 15' | Plot 03 17'6" | harvest rows 26'3" | 45 rows for WW | 27'1" for P (11 rows at 75cm)

No of rows across plots
 P rows at 75cm = 19'8"
 WW 30 rows at 7" = 17'6"
 Flanders, sown 4 November

Mg Kieserite every year (large rate)
 Mg " " 3rd " (small rate)
 Ni+ Ni Broadcast (same c.b. with Seed Return) every other year alternating with plot 17 except fallow and potatoes (started autumn 1979)



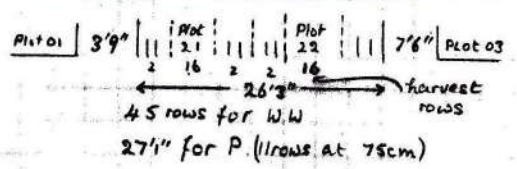
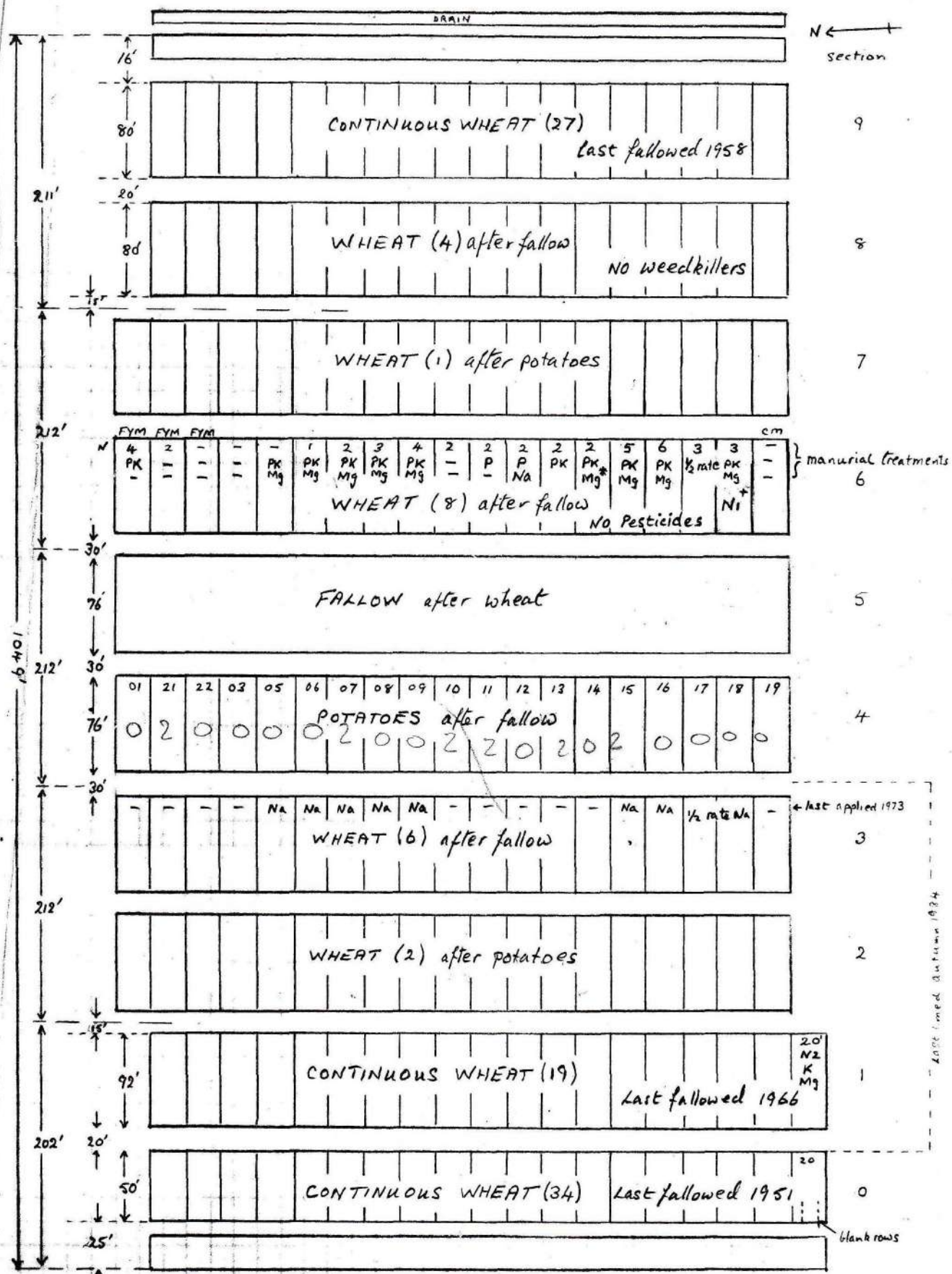
BROADBALK WILDERNESS 477'6"

Plot 01 3'9" | Plot 16 16' | Plot 28 16' | Plot 03 7'6" | harvest rows

45 rows for WW
27'1" for P (11 rows @ 75cm)

No. of rows across plots
P 8 rows at 75cm = 19'8"
WW 30 rows at 7" = 17'6"
Flanders, dressed clover
greenfallow, sown at 208lb/ha
on 6 October

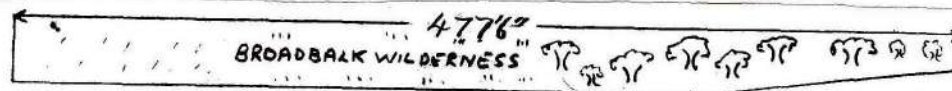
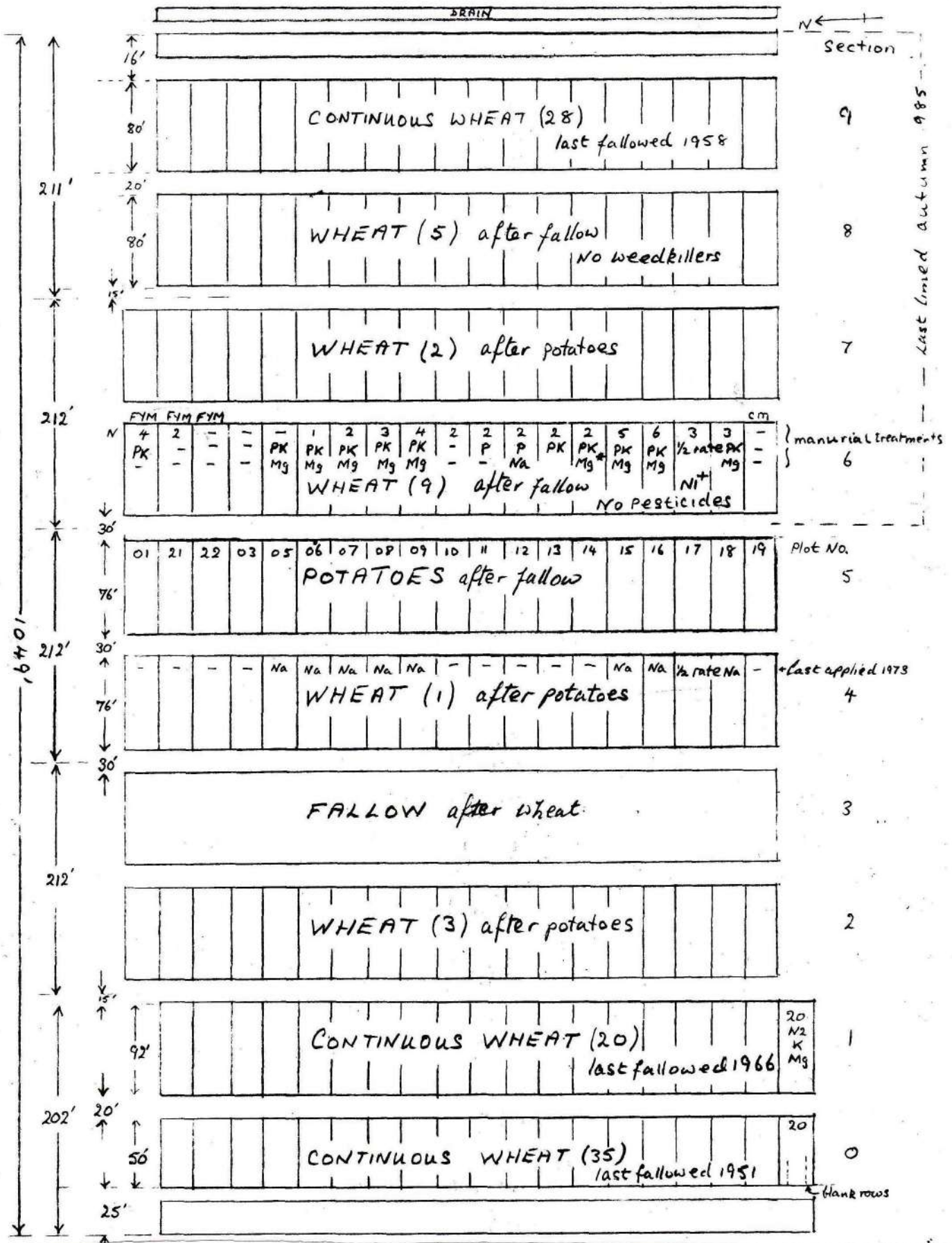
Mg* Kieserite every year (large rate)
Mg " " 3rd year (small rate)
Ni* N1 broadcast (was C.D. with seed) in autumn
every year alternating with plot 18 except
fallow and potatoes (started autumn 1979)



No. of rows across plots
 P 8 rows at 75cm. = 19'8"
 WW 30 rows at 7" = 17'6"
 Wheat, Brimstone
 Potatoes, Pentland Crown
 No Pesticides = no insecticides or fungicides or growth

Mg* Kieserite every year (large rate)
 Mg " " 3rd year (small rate)
 Ni, Ni broadcast (was C.D. with seed) in autumn, every year alternating with plot 17 except fallow and potatoes (started autumn 1979)
 Note: increased rates of N on plots 01, 15 + 16.

Last limed autumn 1984



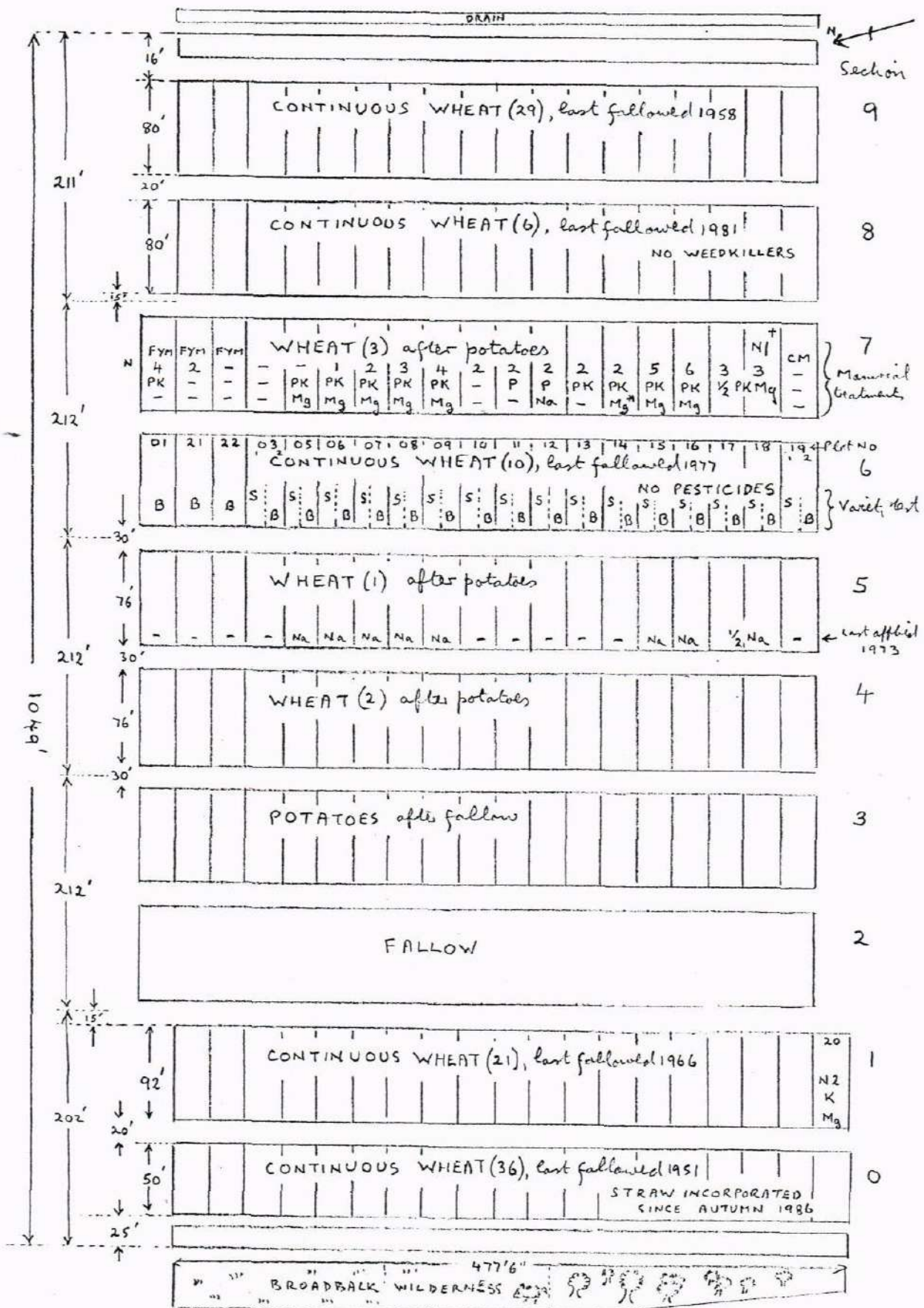
Plot 01 3 1/2" | Plot 21 16 | Plot 22 16 | 7 1/8" Plot 03

NO. of rows across plots
 P = 8 rows at 75cm = 19' 8"
 WW = 30 rows at 7" = 17' 6"

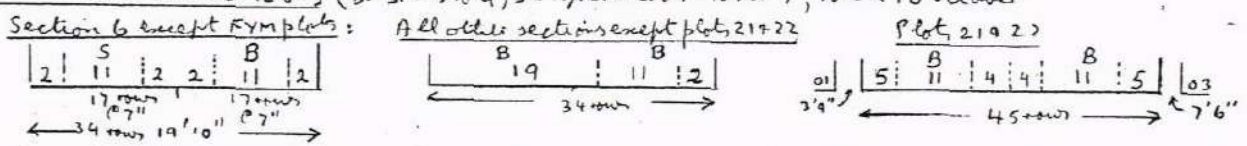
Mg* Kieserite every year (large rate)
 Mg " " 3rd year (small rate)
 Ni⁺ Ni broadcast (was cowit seed) in autumn every year alternating with plot 18 except fallow

← 26' 3" →

harvest rows



DRILLING ARRANGEMENTS (B=Brinstow, S=Squareheads Master), sown 10 October



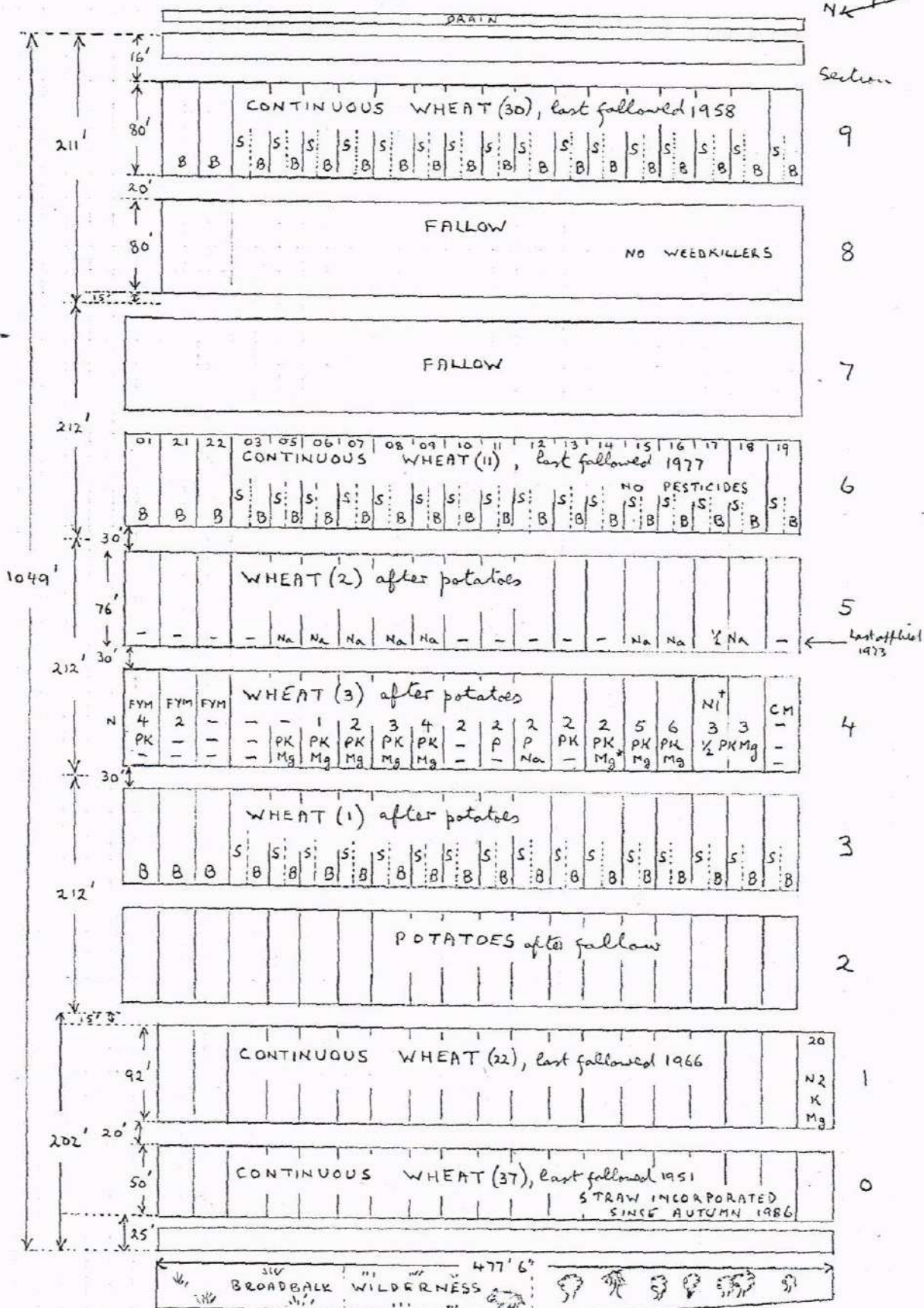
* Mg Kerswell every 3rd year (large rate)
 Mg " " 3rd " (small rate)

N1⁺ N1 broadcast in autumn, alternating with plot 17, to wheat only

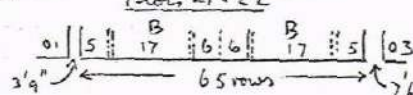
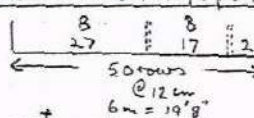
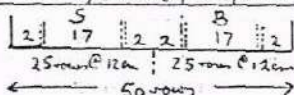
88/R/BK/1 BROADBALK

1988

Sponsors: A.E. Johnston, J. McEwen, R.D. Prew



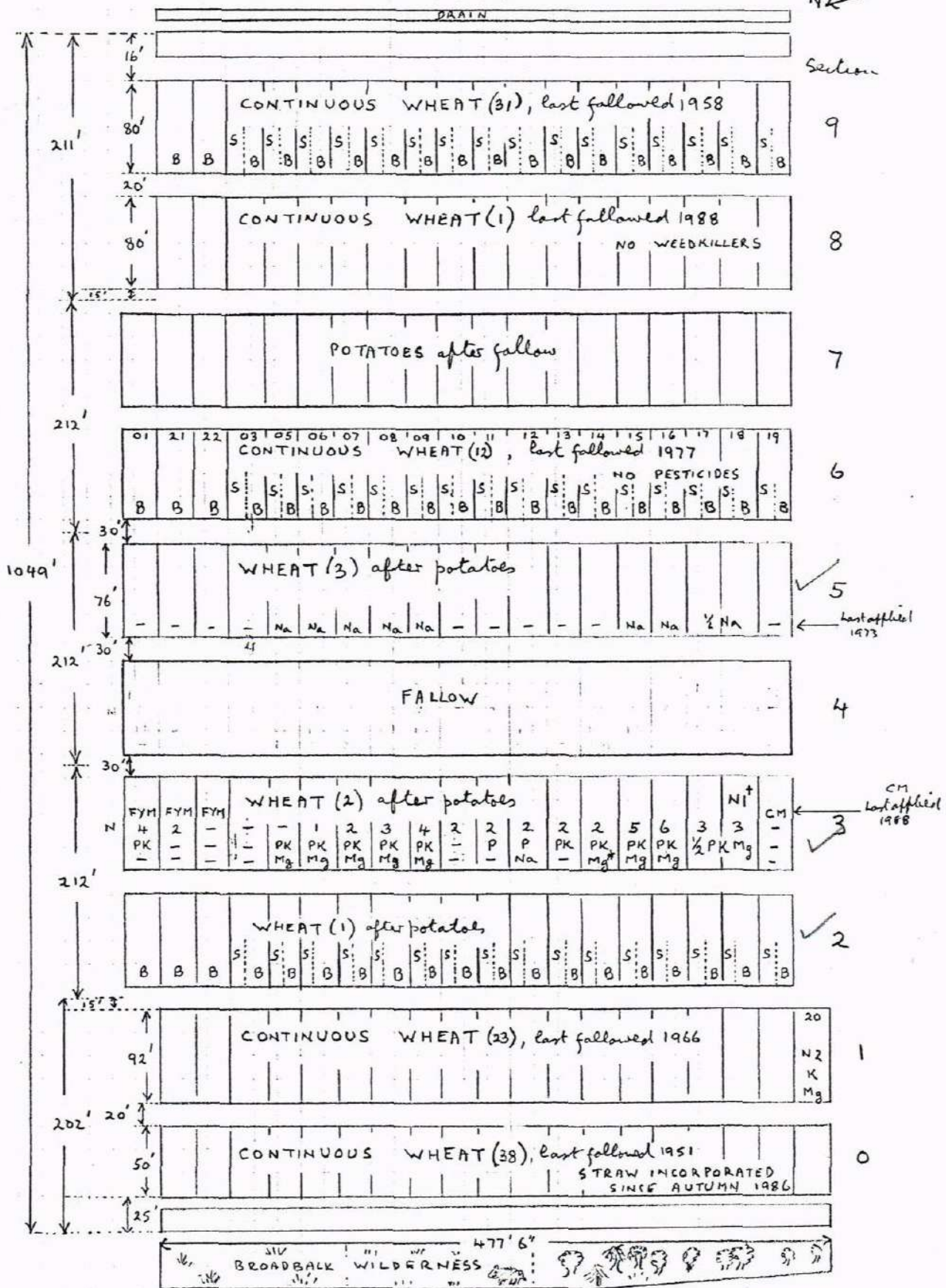
DRILLING ARRANGEMENTS (B = Brimston, S = Squareheads Master), sown on 5/6 November
 Sections 3, 6 and 9 except FYM plots: All other sections except plots 21 & 22: Plots 21 & 22



Mg* Kiesite every year (large rate)
 Mg " " " (small rate)

N1* N1 broadcast in autumn, alternating with plot 18, to which only

Sponsors: A.E. Johnston, J.M. Ewen, R.D. Prew, P.R. Poulton



DRILLING ARRANGEMENTS (B = Brunston, S = Squareheads Master), rows on 26/10(B), 27/10(S) :
 Sections 2, 6 and 9 except FYM plots: All other sections except plots 21 & 22: Plot, 21 & 22

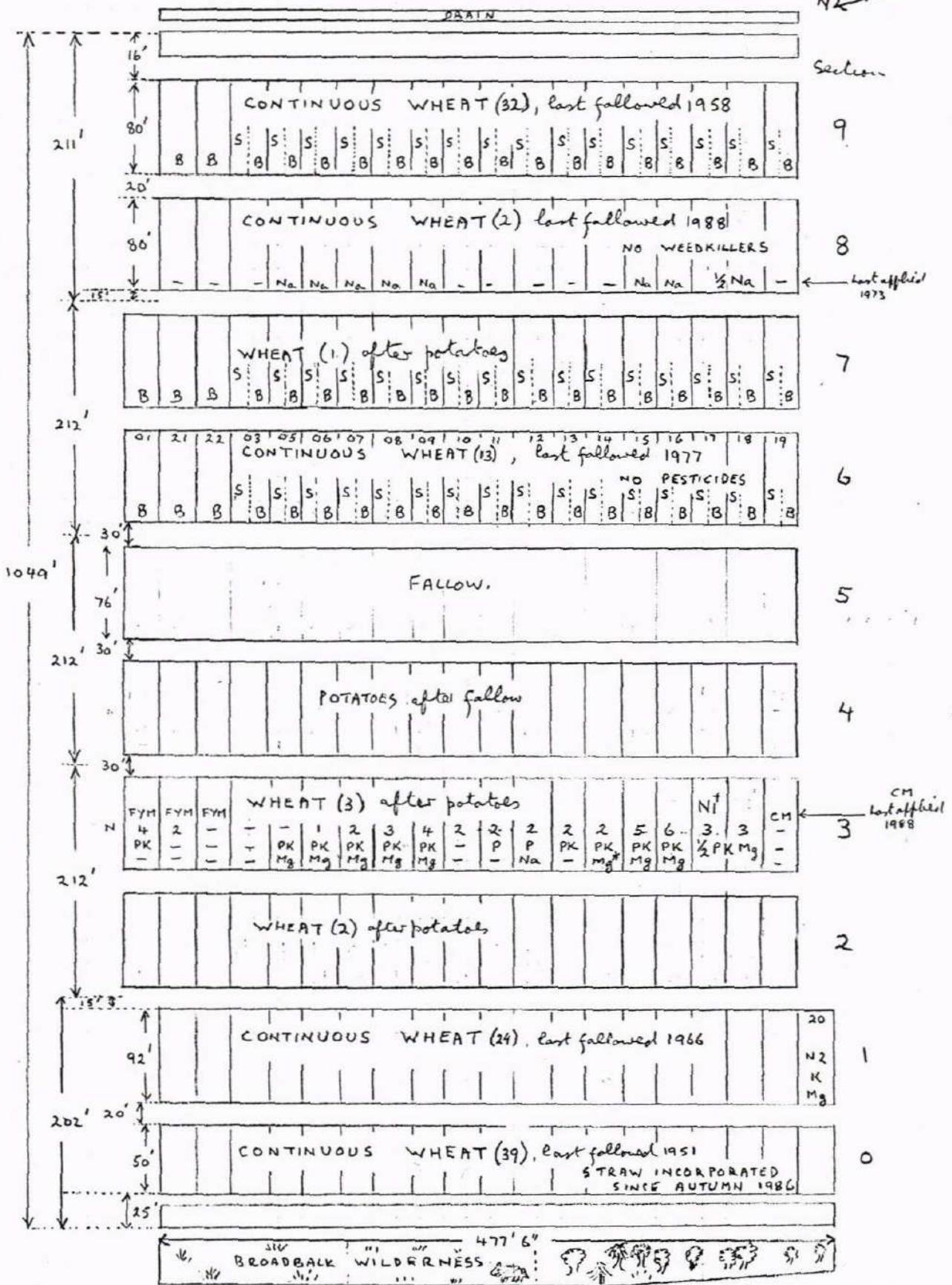
2	17	2	2	17	2	27	17	2	01	17	06	06	17	03
25 rows @ 12" 25 rows @ 12" 50 rows						50 rows @ 12" 6m = 19'8" 3'9" 65 rows								

Mg* kibnite every year (big rate)
 Mg " " " (small rate)
 Ni⁺ Ni broadcast in autumn alternating with plot 17 to which only
 NOTE: No central blank rows on plots 06, 07, 08, 09, Section 1

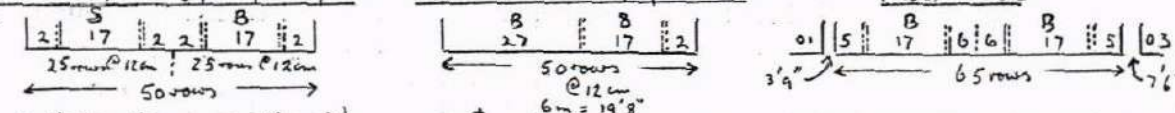
90/R/BK/1 BROADBALK

1990

Sponsors: J. McEwen, R.D. Prew, P.R. Poulton



DRILLING ARRANGEMENTS (B = Brimstone, S = Squareheads Master), sown on 11 October 1989:
 Sections 2, 6 and 9 except FYM/64: All other sections except plots 21 & 22: Plots 21 & 22

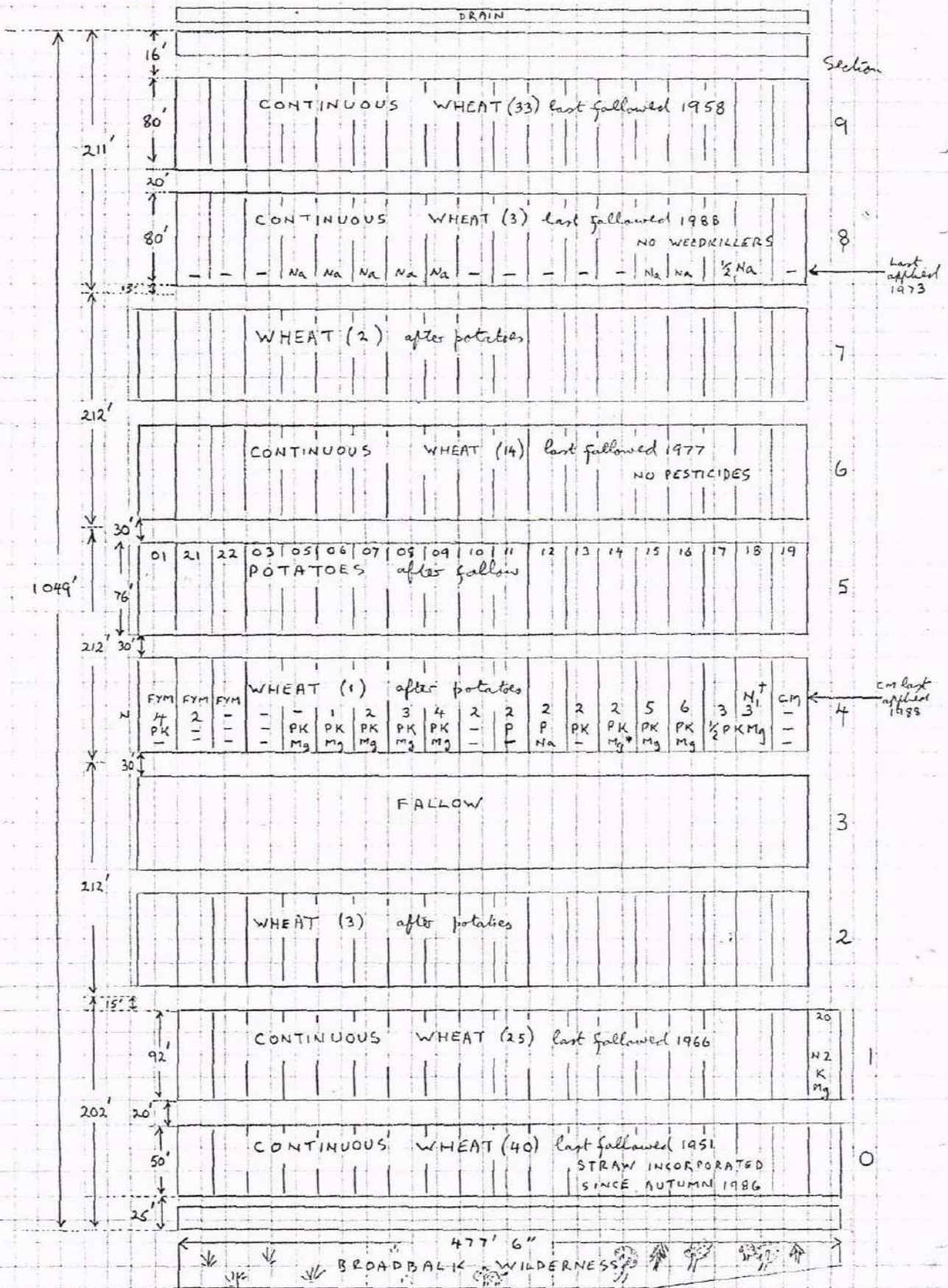


Mg* Kiesite every year (big rate)
 Mg " " " (small rate)

N1+ N1 broadcast - autumn, alternating with plot 18, to which only



Sponsors: J.M. Ewen, R.D. Peart, P.R. Boulton



VARIETY: Apollo besseed anti-bull fly, sown at 380 seeds/m² on 16 October 1990
 65 rows @ 12 cm on plots 21+22, 50 rows (6m) on all other.
 Yields from central 2.3m combined cut. No blank rows

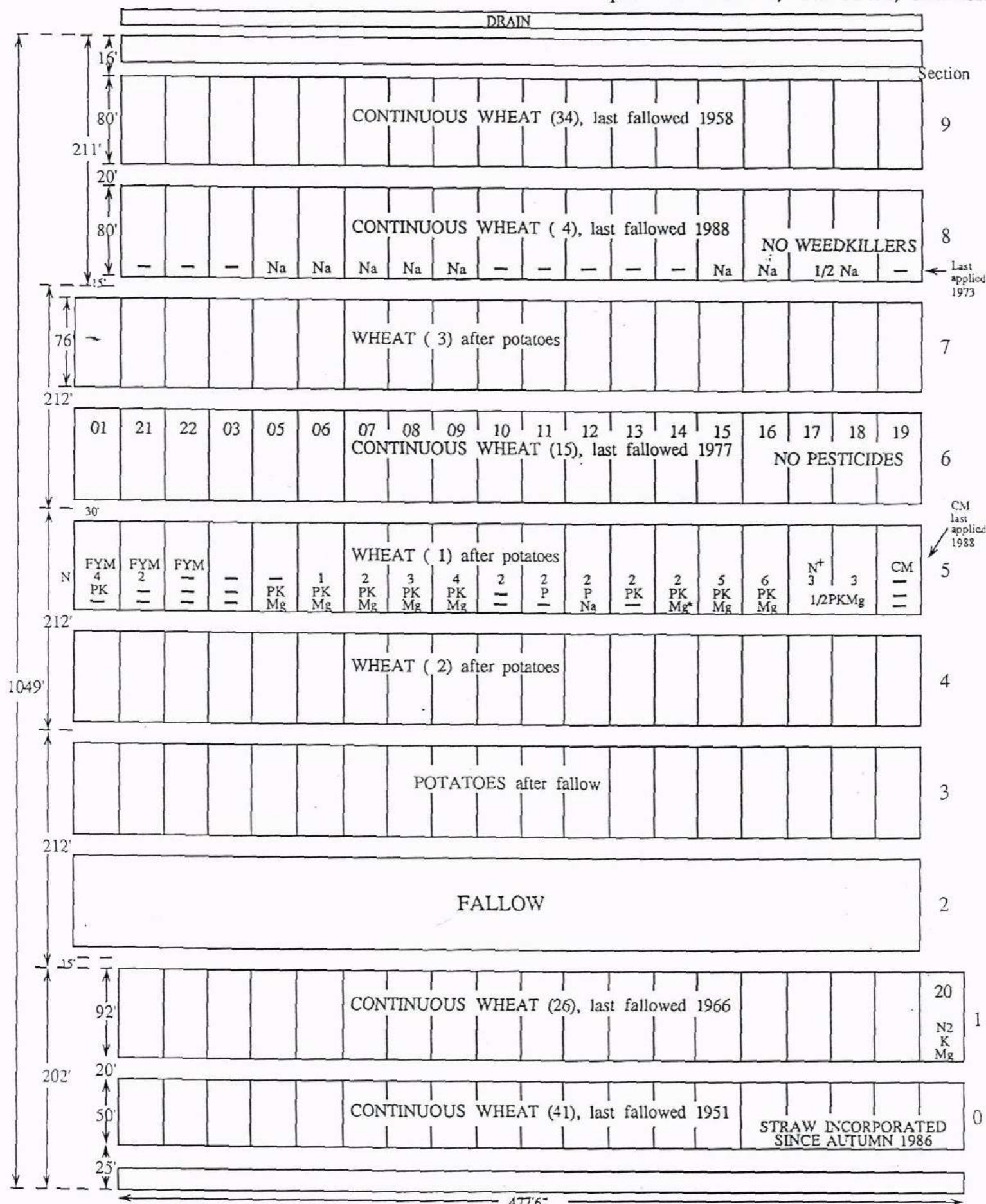
Mg* heavy every year (large rate), Mg* heavy every 3rd year (small rate).
 N⁺ N1 broadcast - autumn, alternating with Plot 17, to wheat only.

92/R/BK/1

N ←

BROADBALK

149th year
Sponsors: R.D.Prew, P.R.Poulton, S.R.Moss



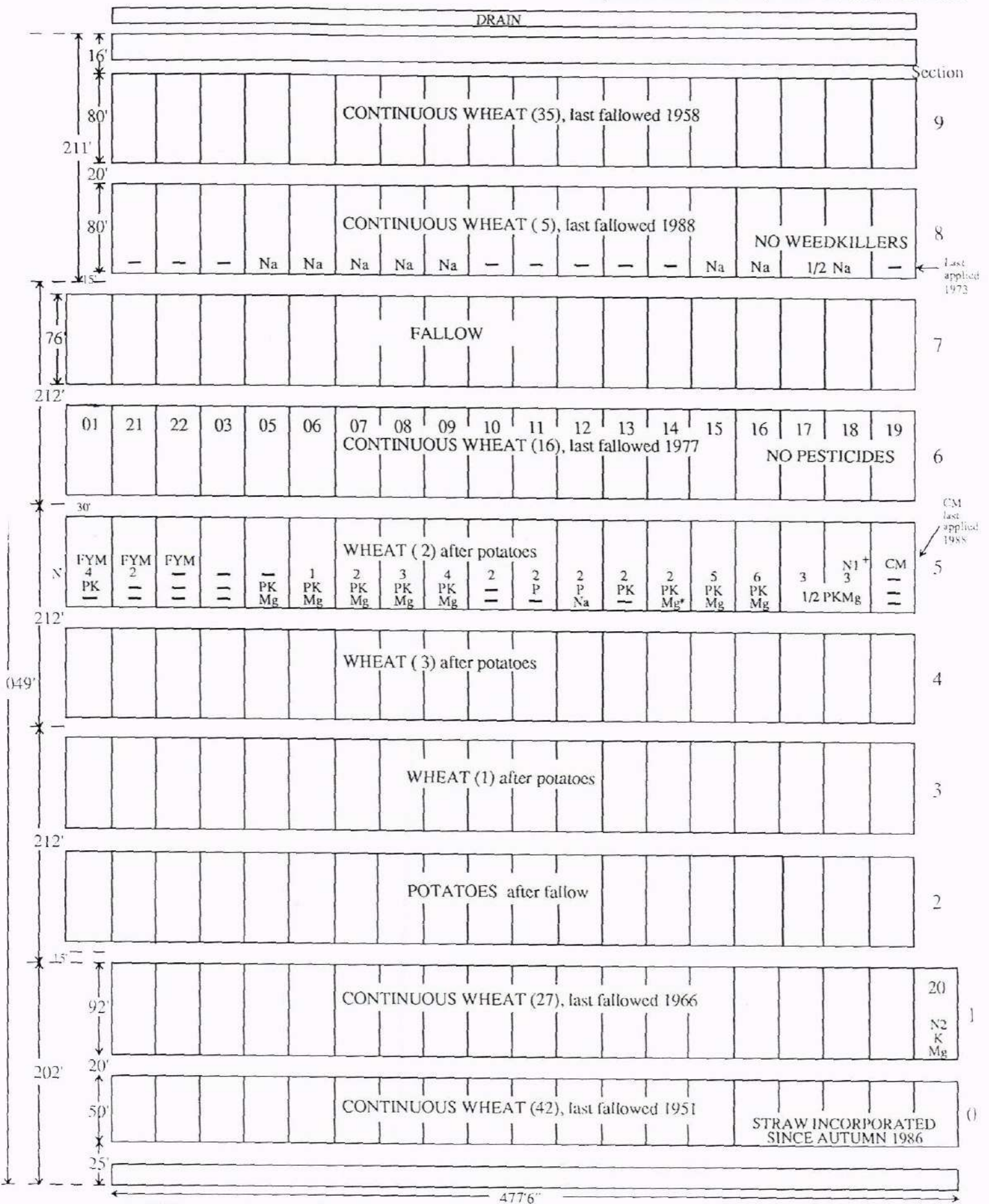
VARIETY: Apollo dressed anti-bulb fly sown at 203 kg/ha on 15 Oct 1991

PLOTS 01, 03 - 20

Plots 6m wide - 50 rows @ 12 cm, 7th & 8th row from each edge blank. Yield from centre 34 rows.

Mg* Kieserite every year (large rate), Mg Kieserite every third year (small rate) N1 + N1 broadcast in autumn, alternating with plot 18, to wheat or

N ←



VARIETY: Apollo dressed anti-bulb fly sown at 149 kg/ha on 6.11.92. Potatoes, Pentland Crown, planted 5.5.93.
 PLOTS 01, 03 - 20 Plots 6m wide - 50 rows @ 12 cm, 7th & 8th row from each edge blank. Yield from centre 34 rows.
 PLOTS 21 + 22 . 65 rows @ 12 cm, no blank rows.

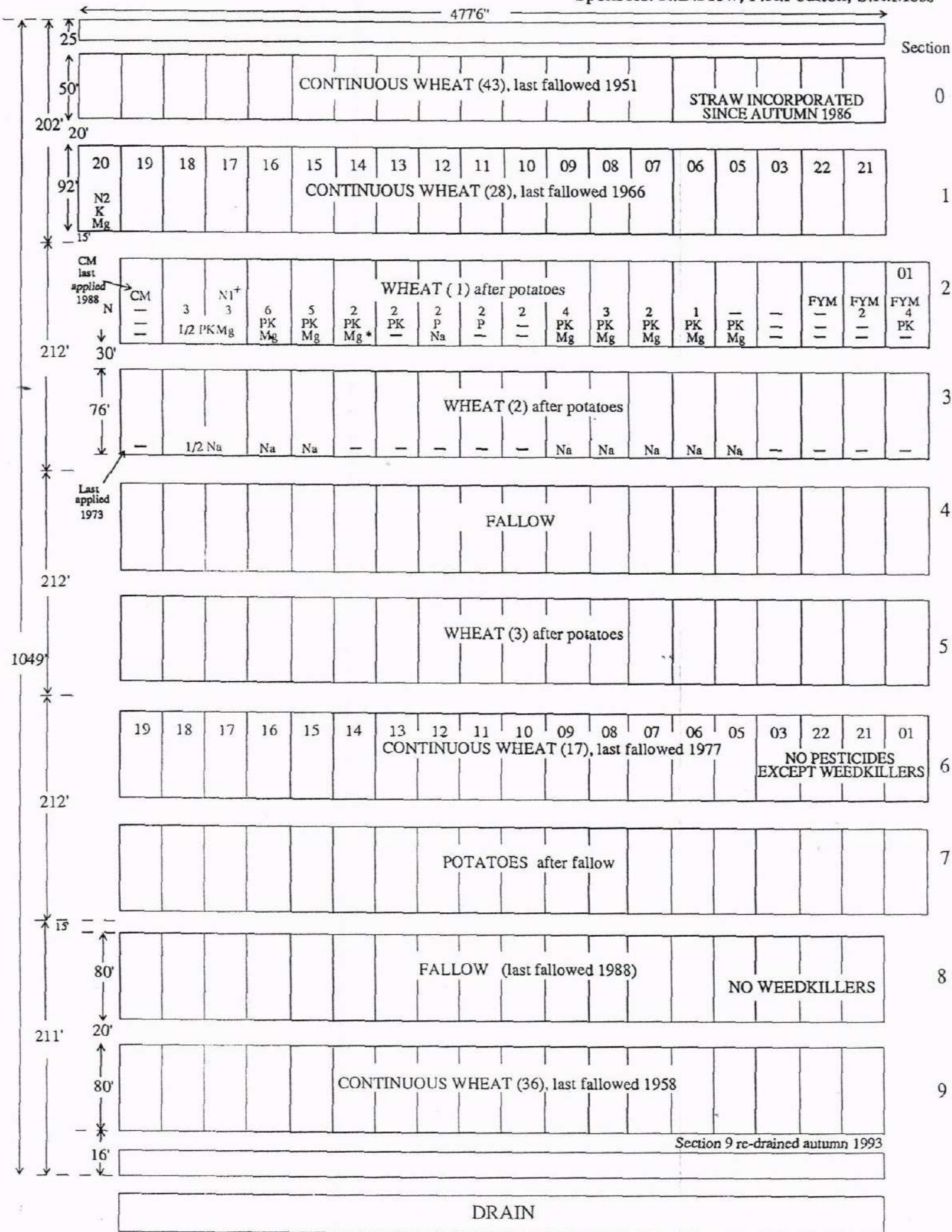
Mg * Kieserite every year (large rate), Mg Kieserite every third year (small rate) N1⁺ N1 broadcast in autumn, alternating with plot 17, to wheat only

94/R/BK/1

→ N BROADBALK

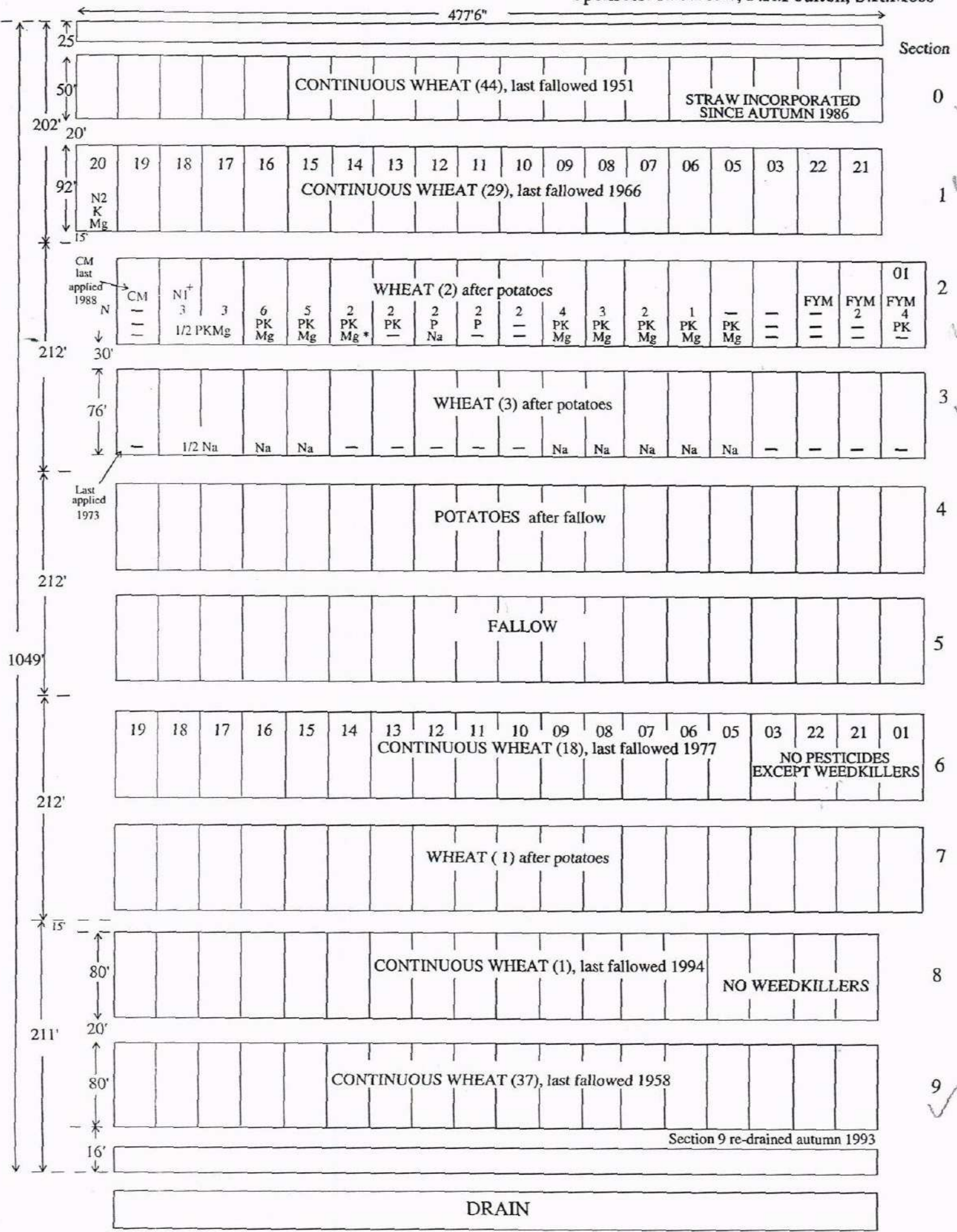
151st year

Sponsors: R.D.Prew, P.R.Poulton, S.R.Moss



VARIETY: Apollo dressed anti-bulb fly sown at 172 kg/ha on 3.11.93. Potatoes, Pentland Crown, planted
 PLOTS 01, 03 - 20 Plots 6m wide - 50 rows @ 12 cm, 7th & 8th row from each edge blank. Yield from centre 34 rows.
 PLOTS 21 + 22, 65 rows @ 12 cm, no blank rows.

Mg * Kieserite every year (large rate). Mg Kieserite every third year (small rate) NI+ NI broadcast in autumn, alternating with plot 18, to wheat only



VARIETY: Apollo dressed anti-bulb fly sown @ 380 s/sq m on 16.11.94. Potatoes, Estima, planted
 PLOTS 01, 03 - 20 Plots 6m wide - 34 rows @ 17.6 cm, 5th row from each edge blank.
 PLOTS 21 + 22 . 43 rows @ 17.6 cm, no blank rows.

Mg * Kieserite every year (large rate), Mg Kieserite every third year (small rate) N1⁺ N1 broadcast in autumn, alternating with plot 17, to wheat only

96/R/BK/1

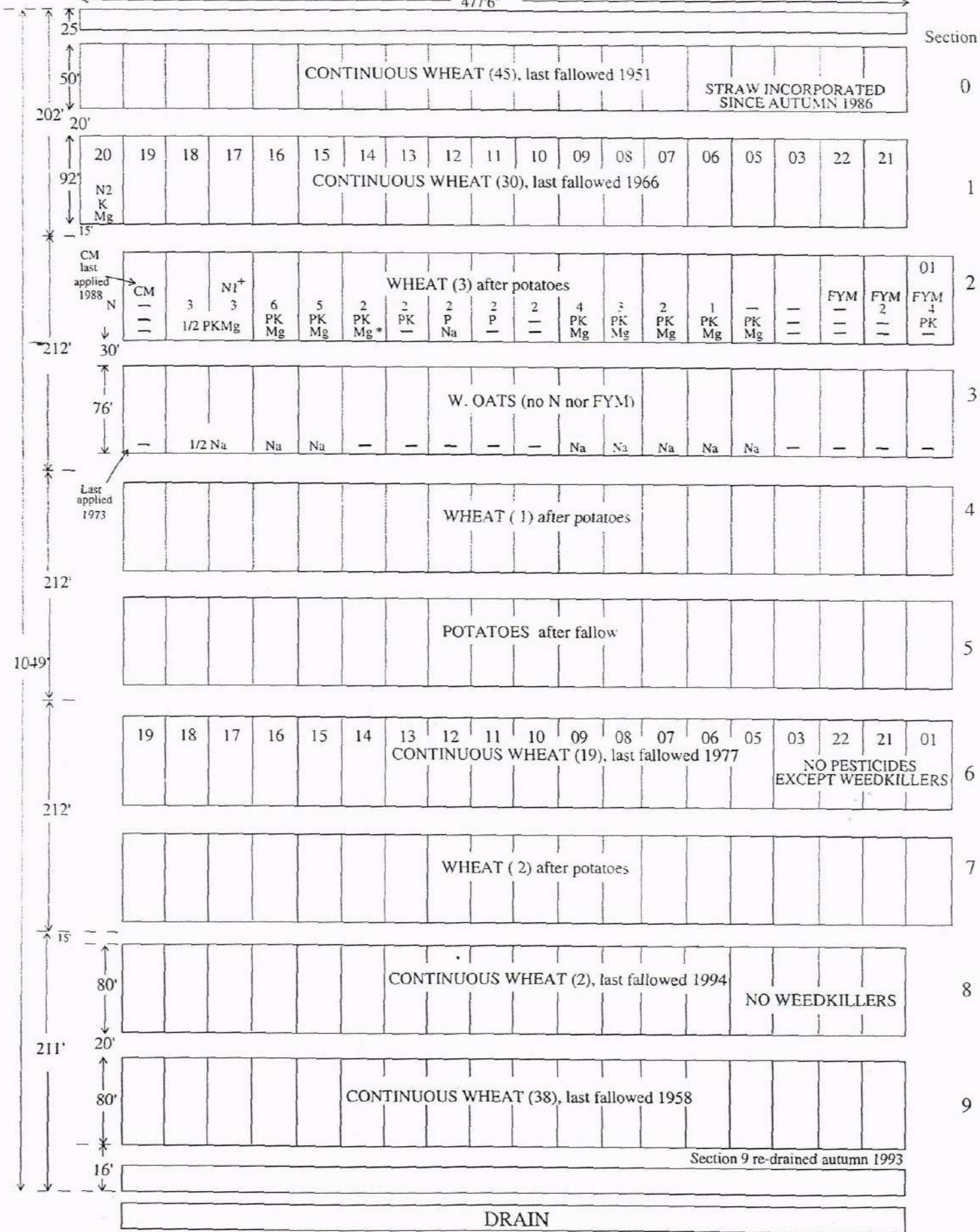
N BROADBALK

153rd year

Sponsors: P.R.Poulton, S.R.Moss

477'6"

Section



VARIETY: Wheat - Hereward, tr Fonophos, @ 380 s/m² on 11.10.95; Oats - Image, tr Vitaflo Extra, @ 350 s/m² on 12.10.95; potatoes - Estima planted on 1 May 1996

PLOTS 01, 03 - 20 6m wide - 50 rows @ 12 cm, 7th & 8th row from each edge blank; PLOTS 21 + 22, 65 rows @ 12 cm, no blank rows.

Mg * Kieserite every year (large rate), Mg Kieserite every third year (small rate). N1⁺ N1 broadcast in autumn, alternating with plot 18, to wheat only. New 5-year rotation to be phased in from autumn 1995 - w. oats, forage maize, wheat, wheat, wheat

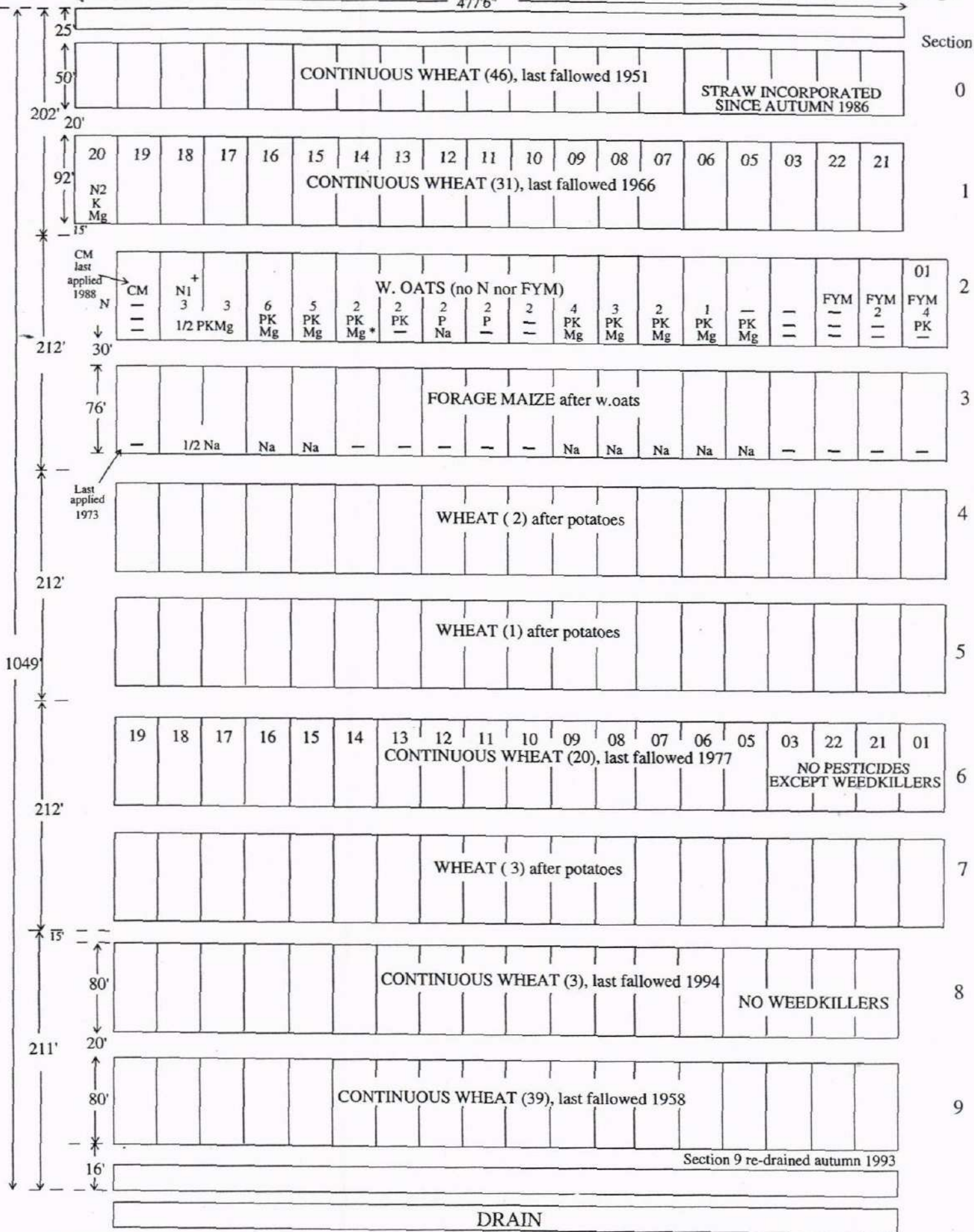
97/R/BK/1

← N BROADBALK

154th year

Sponsors: P.R.Poulton, S.R.Moss, R.J.Gutteridge

477'6"



VARIETY: Wheat - Hereward, tr Fonophos + Beret Gold, @ 380 s/m² on 15.10.96 Oats - Image, tr Anchor, @ 380 s/m² on 16.10.96
Forage Maize - spring 1997

PLOTS 01, 03 - 20 6m wide; PLOTS 21 and 22 4m wide each. F. maize 6m plots 10 rows @ 60 cm; 21 + 22 13 rows @ 60 cm

Cereals: 6m plots, 50 rows @ 12 cm, 7th & 8th from each edge blank: 21+22, 65 rows @ 12 cm, no blank rows

Mg⁺ Kieserite every year (large rate), Mg Kieserite every third year (small rate). N1⁺ N1 broadcast in autumn, alternating with plot 17, to wheat only.
New 5-year rotation to be phased in from autumn 1995 - w. oats, forage maize, wheat, wheat, wheat

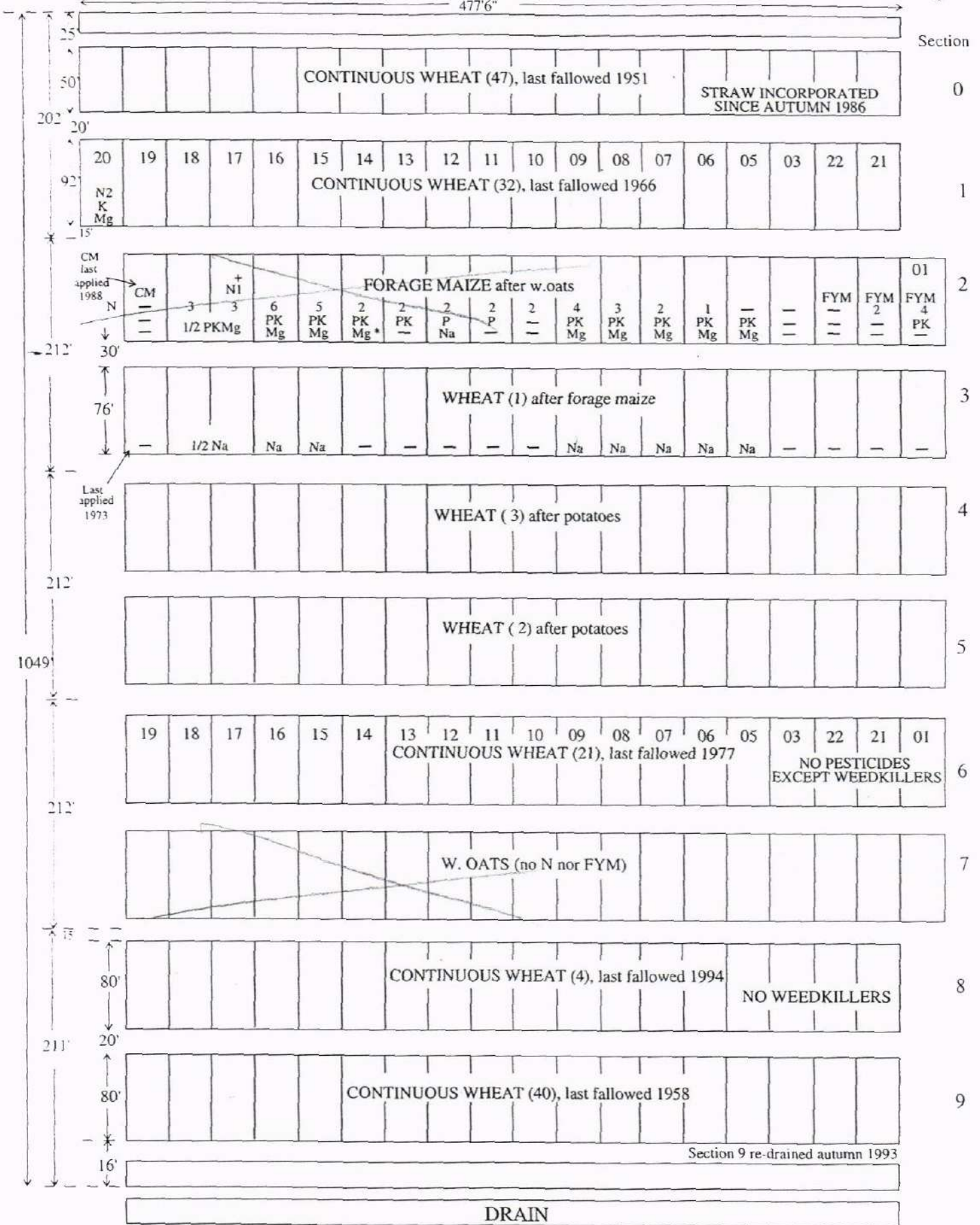
98/R/BK/1

N BROADBALK

155th year

Sponsors: P.R.Poulton, S.R.Moss, R.J.Gutteridge

477'6"



VARIETY: Wheat - Hereward, tr Fonophos + Anchor, @ 380 s/sq m on 21 Oct 1997 Oats - Image, tr Anchor, @ 380 s/sq m on 21 Oct 1997

Forage Maize - spring 1998

PLOTS 01, 03 - 20 6m wide; PLOTS 21 and 22 4m wide each. F. maize 6m plots 10 rows @ 60 cm; 21 + 22 13 rows @ 60 cm

Cereals: 6m plots. 50 rows @ 12 cm, 7th & 8th from each edge blank: 21+22, 65 rows @ 12 cm, no blank rows

Mg. Kieserite every year (large rate), Mg Kieserite every third year (small rate). N1 N1 broadcast in autumn, alternating with plot 18, to wheat only.

New 5-year rotation to be phased in from autumn 1995 - w. oats, forage maize, wheat, wheat, wheat

99/R/BK/1

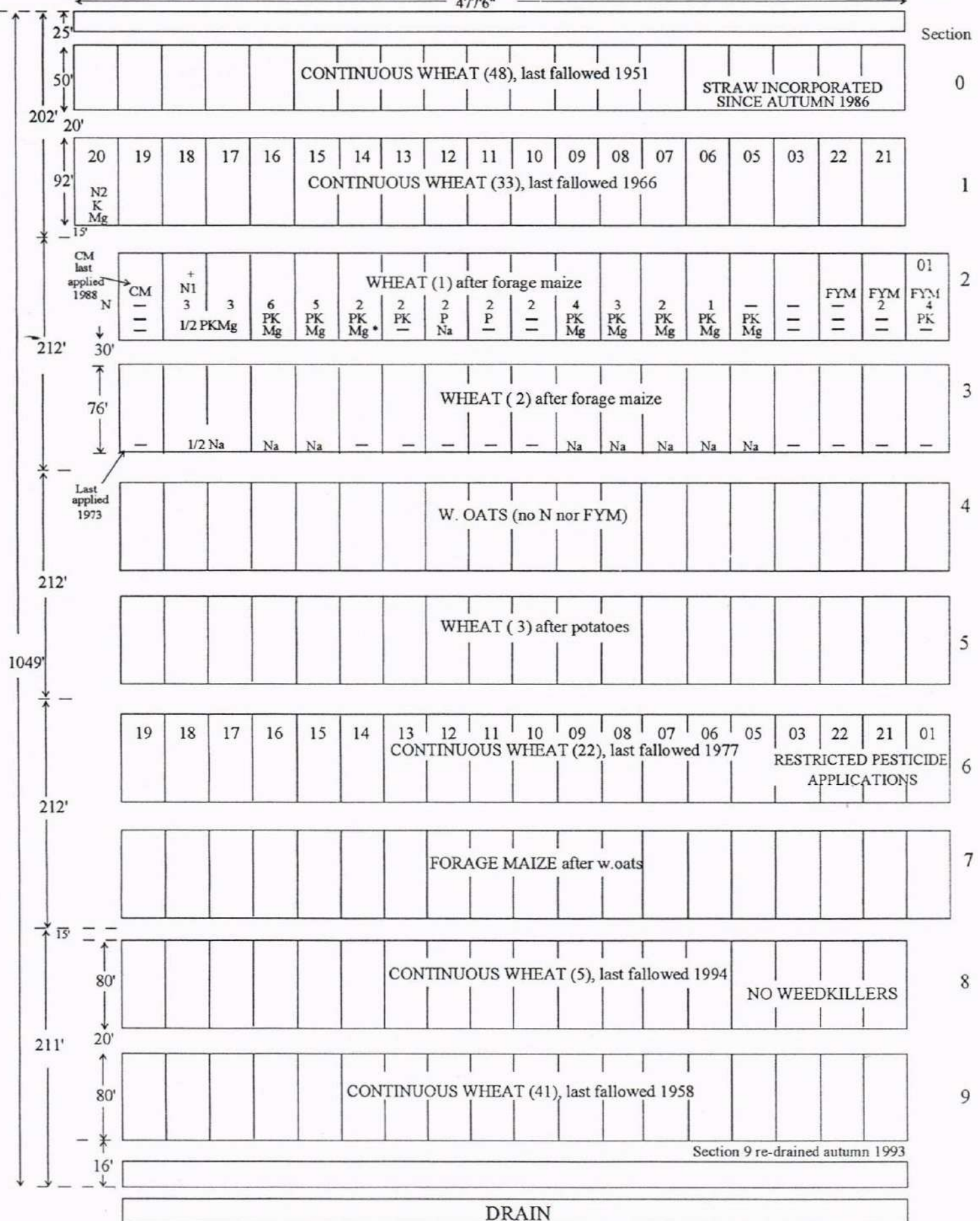
N BROADBALK

156th year

Sponsors: P.R.Poulton, S.R.Moss, R.J.Gutteridge

477'6"

Section



VARIETY: Wheat - Hereward, tr Sibutol + Evict @ 400 s/sq m, and Oats - Image, tr Anchor, @ 350 s/sq m both sown on 30 Oct 1998

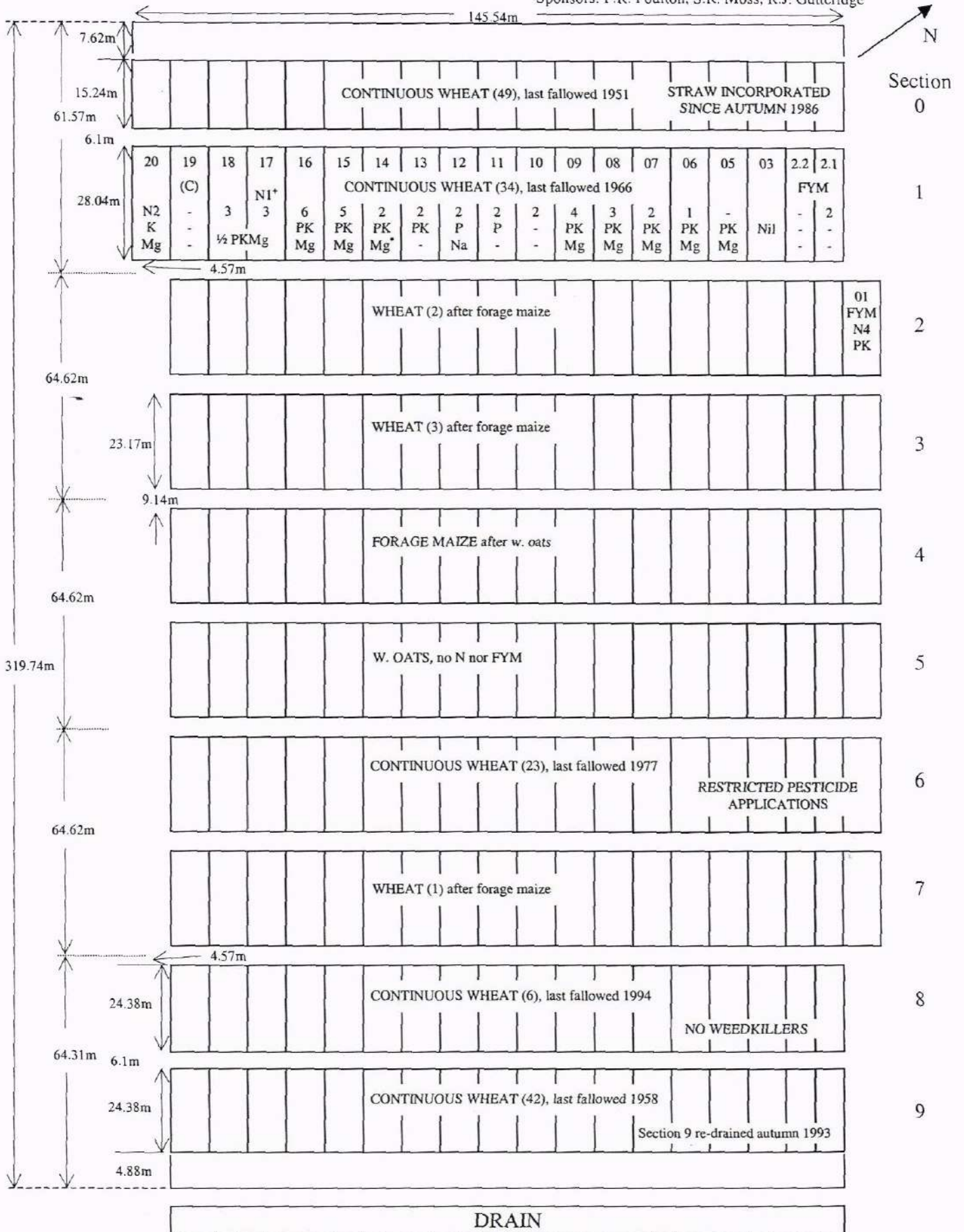
Forage Maize - spring 1999

PLOTS 01, 03 - 20 6m wide; PLOTS 21 and 22 4m wide each. F. maize 6m plots 10 rows @ 60 cm; 21 + 22 13 rows @ 60 cm

Cereals: 6m plots, 48 rows @ 12.5 cm, 7th & 8th from each edge blank: 21+22, 64 rows @ 12.5 cm, no blank rows

Mg* Kieserite every year (large rate), Mg Kieserite every third year (small rate). N1+ N1 broadcast in autumn, alternating with plot 18, to wheat only.

New 5-year rotation phased in from autumn 1995 - w. oats, forage maize, wheat, wheat, wheat



VARIETY: Wheat - Hereward, tr Sibutol @ 380 s/m², Oats - Image, tr Sibutol @ 350 s/m² both sown on 7 Oct 1999, Forage maize - 16 May 2000

PLOTS: 01, 03-20 6m wide, 2.1 and 2.2 - 4m wide each. DRILLING: F. maize: 6m plots - 10 rows @ 60cm, 2.1+2.2 - 13 rows @ 60cm, Cereals: 6m plots - 48 rows @ 12.5cm, 7th & 8th from the edge blank, 2.1+2.2 - 64 rows @ 12.5cm no blank rows.

Mg - Kieserite every year (large rate), Mg - Kieserite every third year (small rate).

N1⁺ - N1 broadcast in autumn, alternating on plots 17 & 18 to wheat only.

New 5-year rotation phased in from autumn 1995 - w. oats. forage maize. w. wheat. w. wheat. w. wheat.