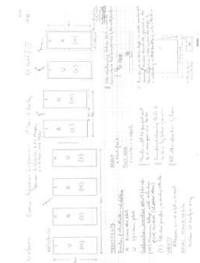


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# Collection of Plans for the Woburn Erosion Reference Experiment

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## Collection of Plans for the Woburn Erosion Reference Experiment - 1988 - 1998

### Rothamsted Research

Rothamsted Research (1988-1998) *Collection of Plans for the Woburn Erosion Reference Experiment - 1988 - 1998* ; Collection Of Plans For The Woburn Erosion Reference Experiment, pp 1 - 11

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Woburn

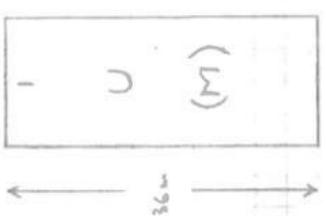
Econo. Reference Experiment, 1st Year Students

Sponsors: R. Webster, R.P.C Manager,  
R.J. Richardson, PDR Stafers

88/w/RN/20

88/w/RN/20

88/w/RN/20



### TREATMENTS

Direction of all cultivation and tillage

A Across the plots

U Up & down plots

- Cultivation practices, off-field fertiliser
- (M) minimum tillage with rotation of crop residues (chopped straw)
- (S) Standard practice, no residue rotation

### VARIETY

Klaxon, sown at 150 kg/ha on 30 March

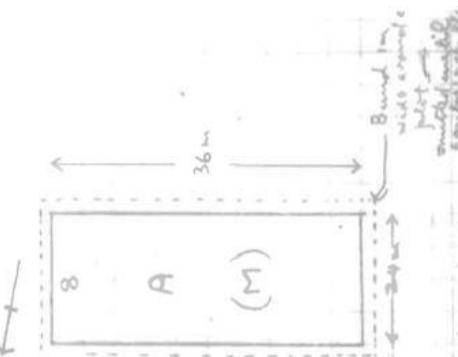
### BASAL MANURING rates

'Nitram' at 340 kg on 5 May

Ex Hull II/III

1988

206



Bands 1m  
wide around  
plots

|| The relationship between plots is not as shown above but as indicated by the North points:-



|| Bands are 10-30 cm high, 1m wide, spaced apart running tractor transverse, graded on the down slope (1:20 across the slope to a collecting outlet connecting with a tank:-



### DESIGN

2 block of 2x2

### PLOT AREA

$$24 \text{ m} \times 36 \text{ m} = 0.0864 \text{ ha}$$

- || Tanks will be pumped out to a manure or a tanker
- || Pumping & cleaning tanks to be done by School of Honour

|| All other operations by Farm

### FLOW

'Nitram' at 340 kg on 5 May

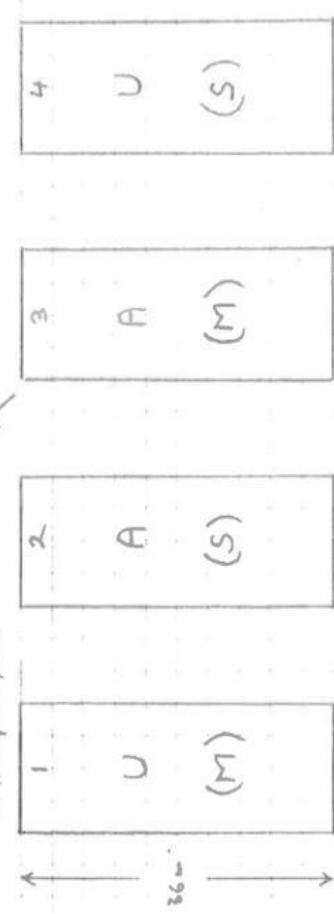
206

1989

## Exonion Reference Experiment 2nd Year Potatoes

Sponsors: R. Webster, R.P.C. Morgan,  
R.J. Richardson, P.D.R. Stiles

89/w/RN/20



### TREATMENTS

Direction of all cultivations and plantings

- A Across the plots
- U Up & down plots

### Cultivation practice

- (M) Minimum tillage: 1988 barley straw chopped & turned into 10cm, to a rain gun or a trailer
- 1989 potato haulm pulverized & retained

- (S) Standard practice: 1988 barley straw baled & removed  
1989 potato haulm removed.

### VARIETY

Estima, planted 10 May

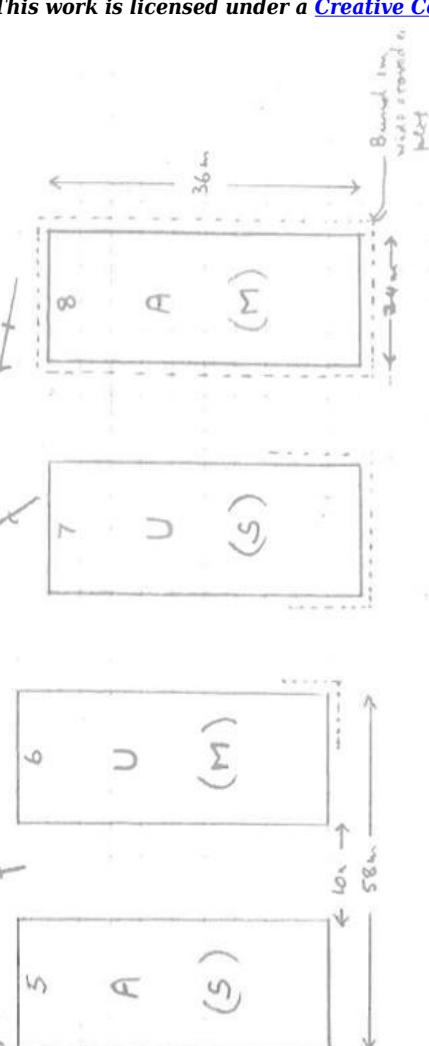
BASAL MANURING per ha  
(13:13:20) at 1800 kg

Ex Hull II/III

1989

206

1989



### DESIGN

2 block of 2x2

### PLOT AREA

$$24\text{m} \times 36\text{m} = 0.0864\text{ha}$$

- || The relationship between plots is not as shown above but as indicated by the North point:-



- || The relationship between plots is not as shown above but as indicated by the North point:-

- || Tanks will be pumped out to a rain gun or a trailer
- || Pumping & cleaning tanks to be done by Silos & Sons

- || All other operations by Farm
- || Board cleaned at sly & seabed



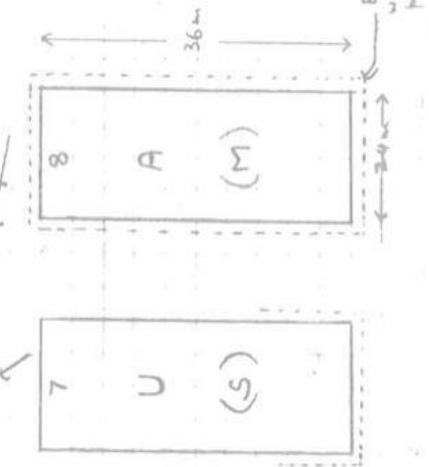
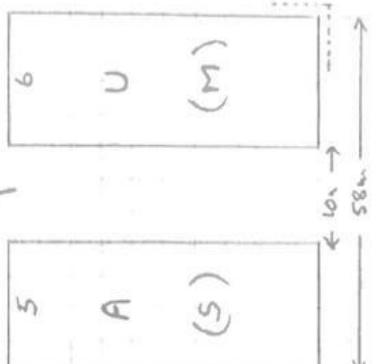
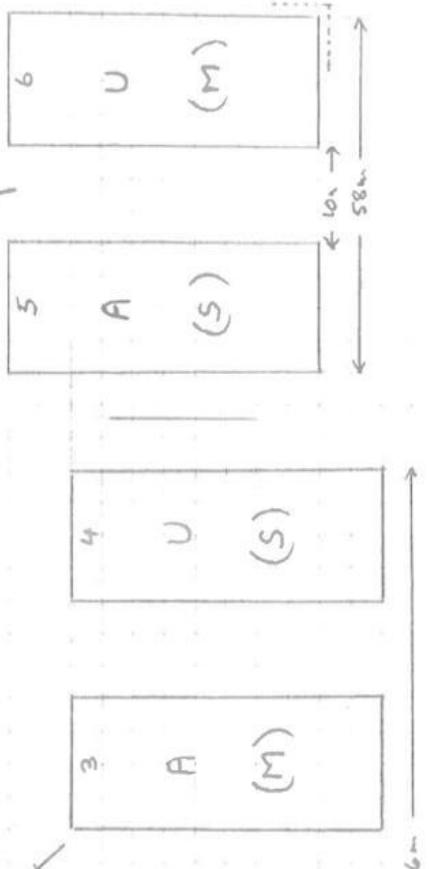
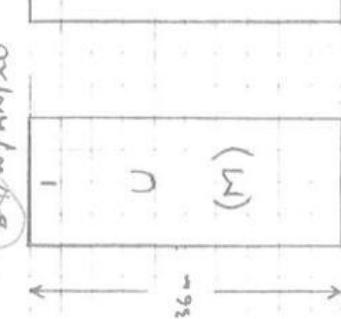
Woburn

Experiments Reference Experiment 3rd Year W. Wheat

Sponsors: R. Webster, R.P.C. Morgan,  
R.J. Richardson, P.D.R. Staples

206  
90/91  
1989

90/91/w/RW/20



### TREATMENTS

Direction of all cuttings and plantings

- A Across the plots
- U Up & down plots

### Cultivation practice

- (M) Minimum tillage: 1989 potato haulm pulverized & retained  
1990 wheat straw chopped & left 10cm
- (S) Standard practice: 1989 potato haulm removed  
1990 wheat straw baled & removed

VARIETY  
Maris Sown at Kg/ha; Date:

BASAL MANURING  
S.F. P.

|| The slot drains between plots as noted as shown above but as indicated by the North point:-



DESIGN  
2 block of 2x2  
PLOT AREA  
 $2.4\text{m} \times 3.6\text{m} = 0.0864\text{ha}$

|| Bunds are 10-30 cm high, 1m wide, sealed after sowing. Tractor traverses, graded on the downslope end 1:200 across the slope to a collecting outlet containing a tank:-



|| Tanks will be pumped out to a main gun or a trailer  
1990 wheat straw chopped & left 10cm

|| Pumping & cleaning tanks to be done by Silo of Somers

|| All other operations by Farm

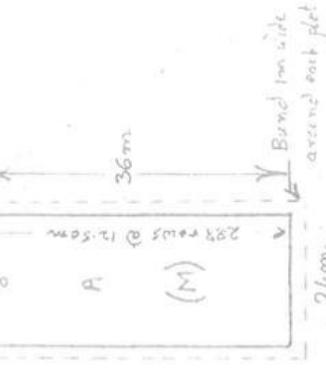
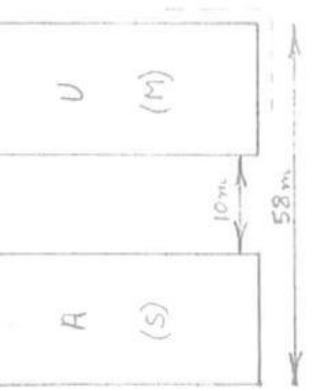
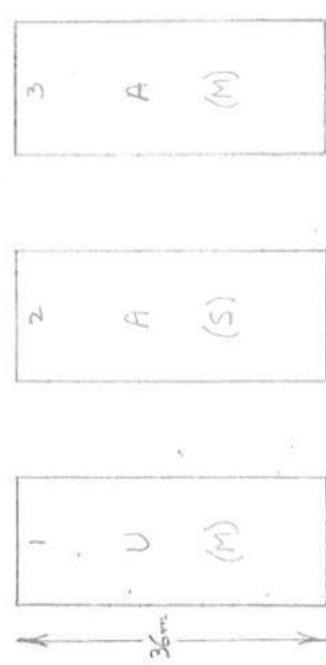
John

7.8.89

mm

WOBURN W. barley EROSION REFERENCE EXPERIMENT 4th Year  
91/w/RN/20

Spnsrs J.A. Catt, RPC Morgan,  
R.J. Rickson, PDR Styles



#### TREATMENTS Direction of all cultivation and planting

A across the plots  
U up and down the plots.

#### DESIGN 2 blocks of 2x2

PLOT AREA  
24m x 36m = 0.864ha

The relationship between plots is not as shown above but as indicated by the North points



Cultivation practice:  
1989 potato haulms, pulverized straw retained  
1990 wheat straw chaff retained in crop  
1991 barley straw

Mowing regime:  
1989 potato haulms removed  
1990 wheat straw baled & removed  
1991 barley straw

Pumping operations in tanks to be done by Science Spares

All other operations by Lufarco

Planting dates: 150 plots 22 SEP 1990

Establishment: 27 JULY 1990

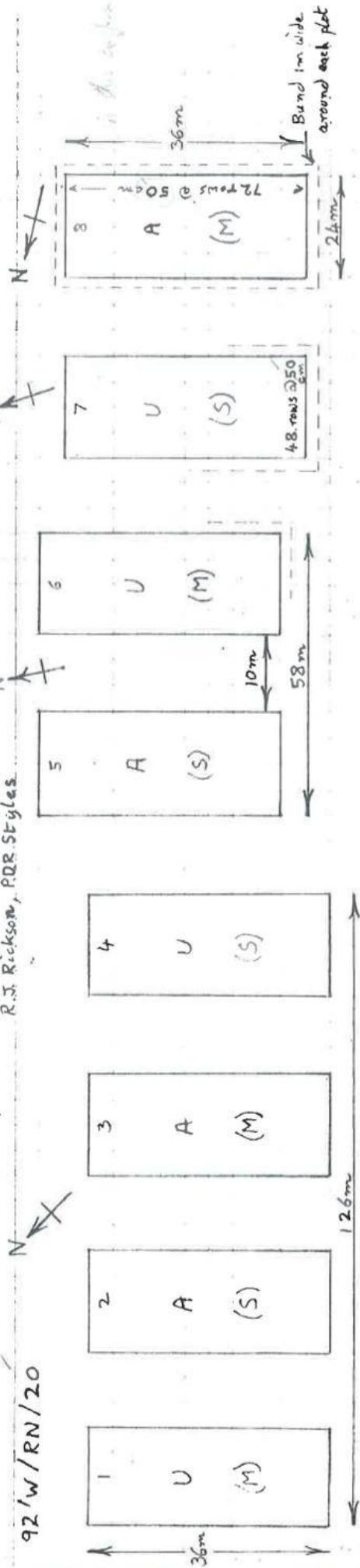
9 AUG 1990

205

WOBURN Sugar beet EROSION REFERENCE EXPERIMENT 5th Year GREAT HILL - II/III 1992.

Sponsors J.A. Catt, R.P.C. Morgan,  
R.J. Rickson, P.D.R. Styles.

921W/RN/20



TREATMENTS

Direction of all cultivations and planting  
A Across the plots  
U Up and down the plots.

Cultivation practice

- (1) Minimum tillage: 1989 potato haulm pulverized & retained
- : 1990 wheat straw chopped & turned to 10cm
- : 1991 barley straw ..
- : 1992 sugar beet tops retained

PLOT AREA  
 $\frac{1}{2} \text{ ha} \times 36m = 0.0364 \text{ ha}$

The relationship between plots is not as shown above but as indicated by the North points



DESIGN

2 blocks of 2x2

ROAD

ORDER OF OPERATIONS 1991/1992

Mid-November (S) plots ploughed & pressed  
(M) plots uncultivated

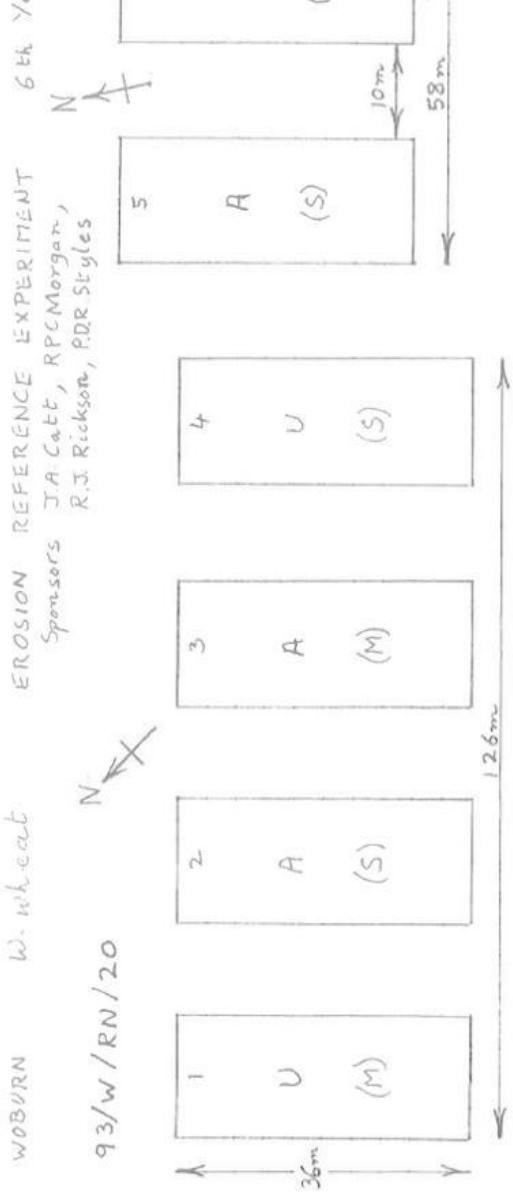
Mid-February (S) plots cultivated to seedbed  
(M) plots ploughed & cultivated to seedbed

CHEKED 4/1/92

BASAL MANURE N in spring  
NPK 10-10-10

DATE 4/10/92

205



TREATMENTS  
Direction of all cultivations and planting

A Across the plots  
Up and down the plots.

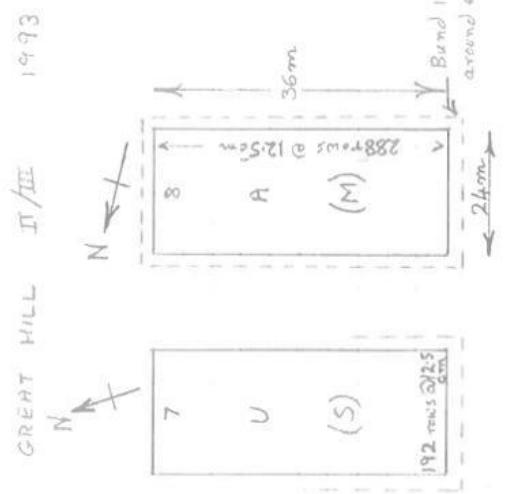
Cultivation practice

- (1) Minimum tillage: 1989 potato haulm pruned & retained  
: 1990 wheat straw chaffed & retained to 10cm  
: 1991 barley straw ..  
: 1992 straw & tops retained  
: 1993 wheat straw chaffed retained 10cm
- (2) Standard practice: 1989 potato haulm removed  
: 1990 wheat straw baled & removed  
: 1991 barley straw ..  
: 1992 ..  
: 1993 wheat straw baled & removed

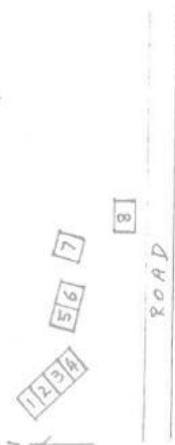
VARIETY  
Prestige

~~PK N Hairy~~ at SFP.

Season 2 16 May 1993



The relationship between plots is not as shown above but as indicated by the North points:-



DESIGN  
2 blocks of 2x2

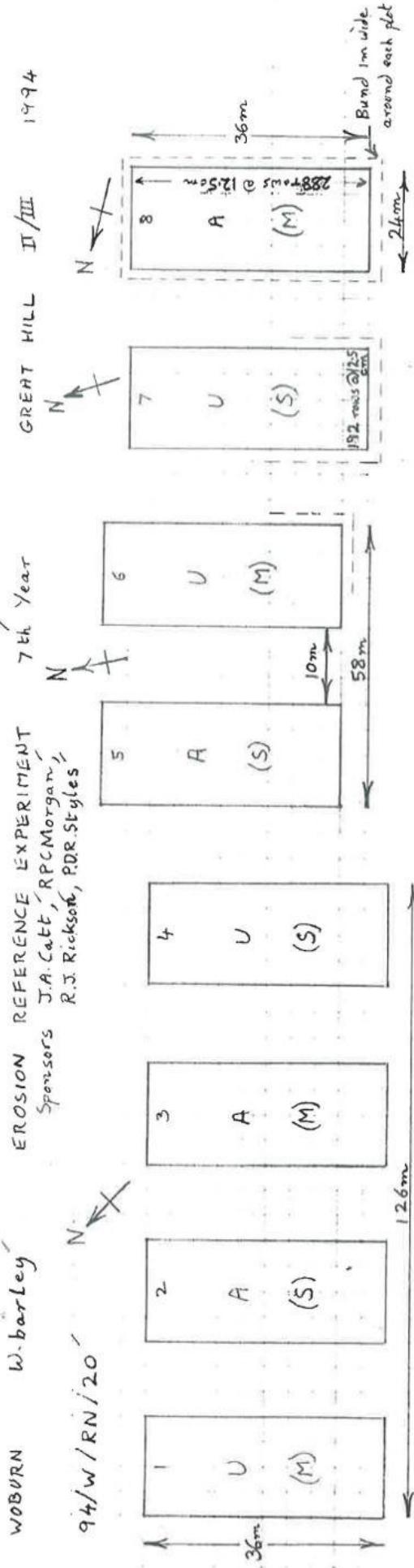
$$\text{PLOT AREA} \\ 24\text{m} \times 36\text{m} = 0.0864\text{ha}$$

- || Tanks will be pumped out  
|| to a rain gun or a tanker  
|| Pumping & cleaning tanks to  
be done by Silsoe sponsors  
|| All other operations by Farm

COMPLETE & RETURN

TO F, E, S.  
Dillist / 26 Jan 1993

ANNUAL



#### TREATMENTS

Direction of all cultivations and planting

A. Across the plots

B. Up and down the plots.

Cultivation practice

(M) Minimum tillage: 1989 potato haulm pulverized & retained

: 1990 wheat straw chopped & turned to 10cm

: 1991 barley straw

: 1992 sweet tops retained

: 1993 & 4 straw chopped turned to 10cm

(S) Standard practice: 1989 potato haulm removed

: 1990 wheat straw baled & removed

: 1991 barley straw

: 1992 sweet tops removed

: 1993 & 4 straw baled & removed

VARIETY Puffin  
BASAL MANURE NPK Nitr. at SFP.

The relationship between plots is not as shown above but as indicated by the North points:



#### DESIGN

2 blocks of 2x2

PLOT AREA

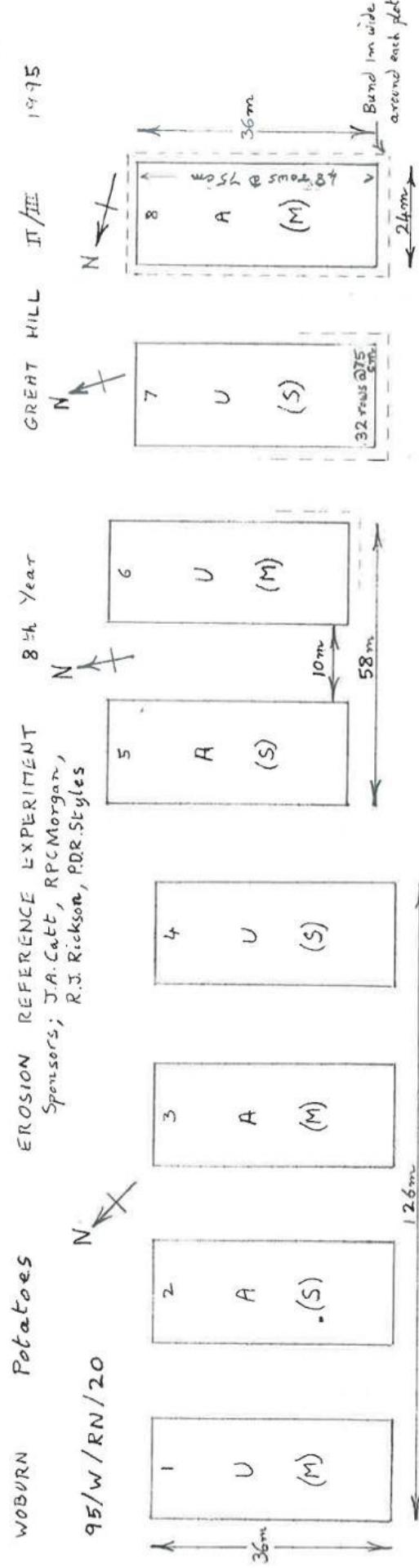
$$2.4m \times 36m = 0.0864ha$$

Tanks will be pumped out  
to a rain gun or a tanker

Pumping & cleaning tanks to  
be done by Silsoe sponsors

All other operations by Farm

CHECKED John  
DATE 17/8/97



Cultivation practice

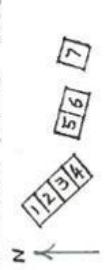
(M) Minimum tillage: 1989 potato haulm pulverised & retained  
: 1990 & 1 straw chopped & turned to 10cm  
: 1992 5 beet tops retained  
: 1993 & 4 straw chopped & turned to 10cm

(S) Standard practice: 1989 potato haulm removed  
: 1990 & 1 straw baled & removed  
: 1992 5 beet tops removed  
: 1993 & 4 straw baled & removed  
: 1995 as 1989

DESIGN  
2 blocks of 2x2

$$\text{PLOT AREA} = 24m \times 36m = 0.0864 \text{ ha}$$

The relationship between plots is not as shown above but as indicated by the North points:

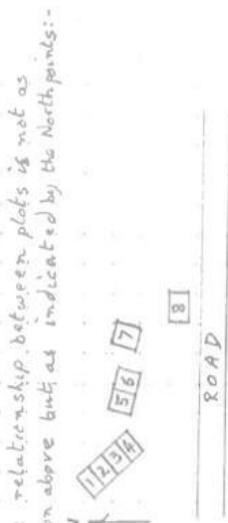
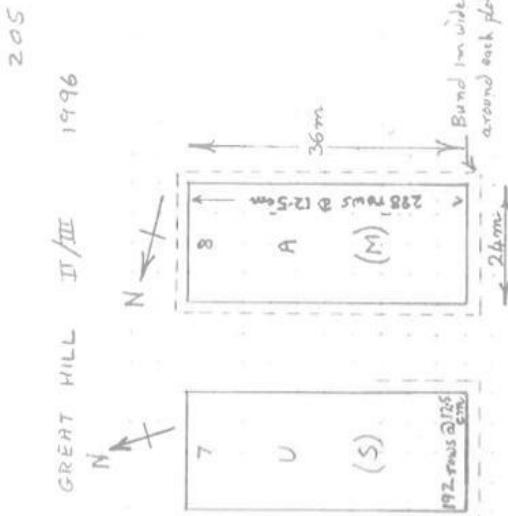
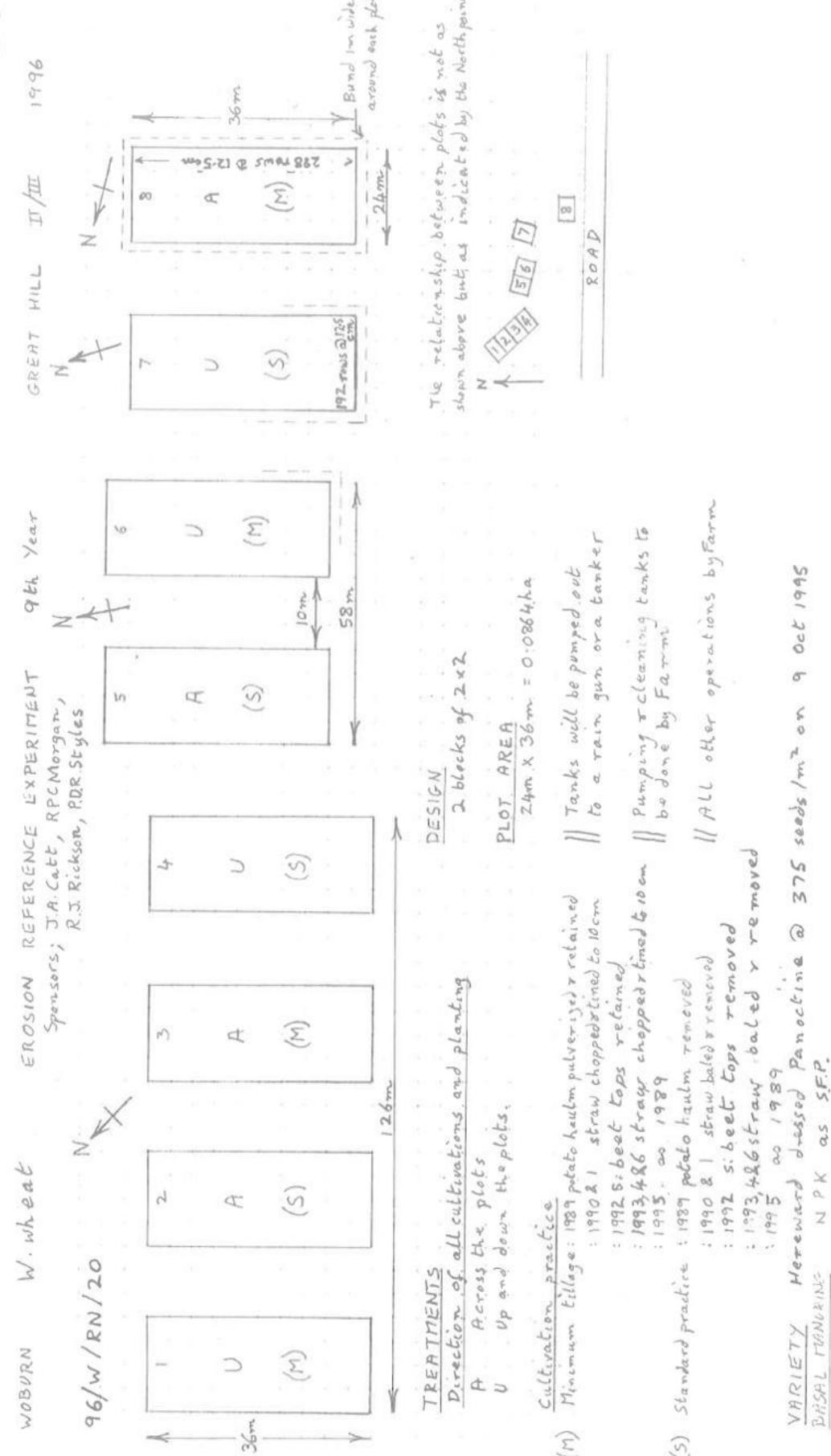


- // Tanks will be pumped out // to a rain gun or a tanker
  - // Pumping & cleaning tanks to be done by Farm
  - // All other operations by Farm
- COMPLETE & RETIREMENT

VARIETY  
British variety: NPK Ha 11g at SFR.

Estima, 35-45 mm seed, planted at 22 cm spacing in 75 cm rows on 12<sup>th</sup> April 1995.

10 F. E. S.



DESIGN  
 2 blocks of 2x2

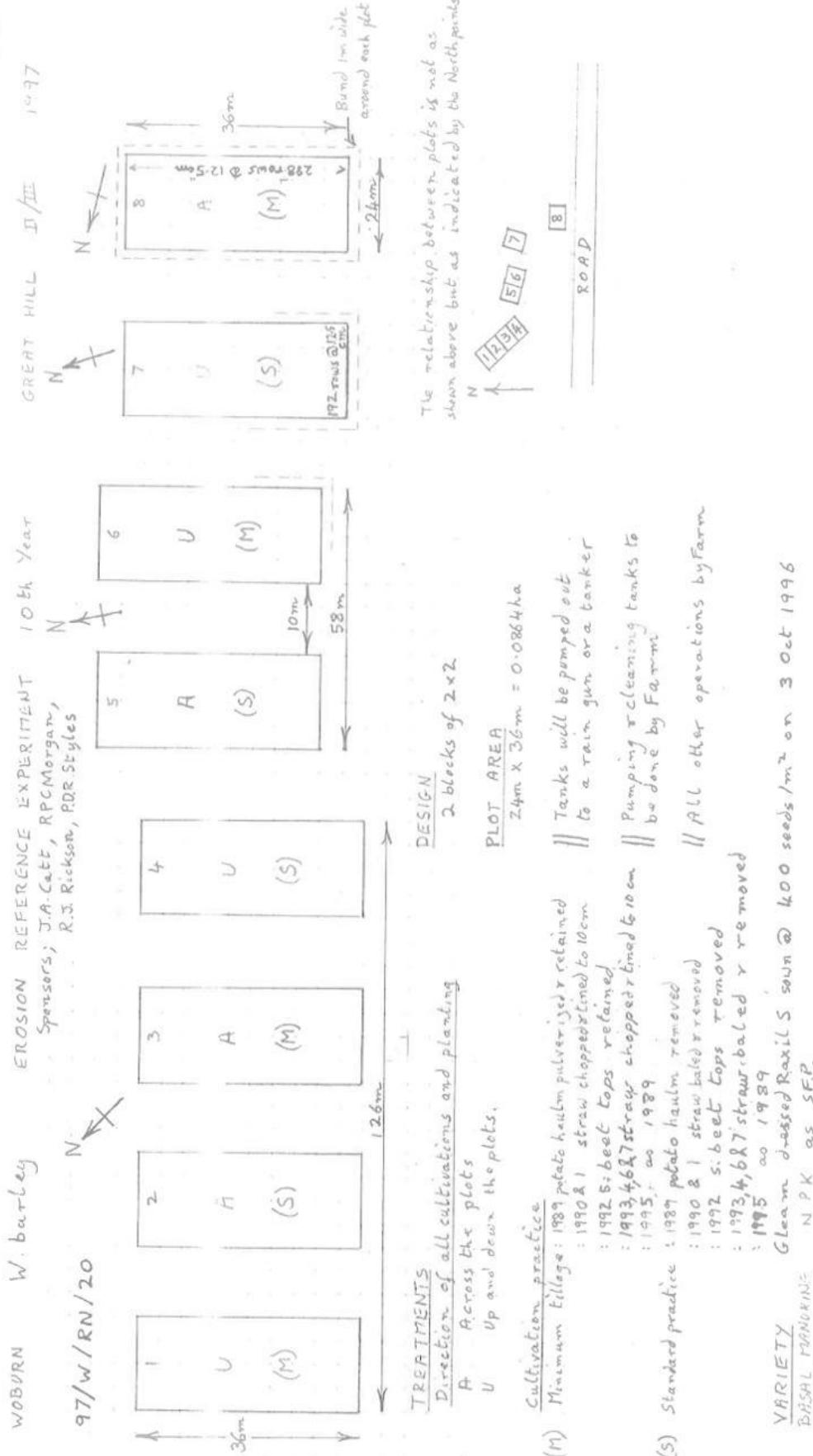
$$\text{PLOT AREA} \\ 24\text{m} \times 36\text{m} = 0.0864\text{ha}$$

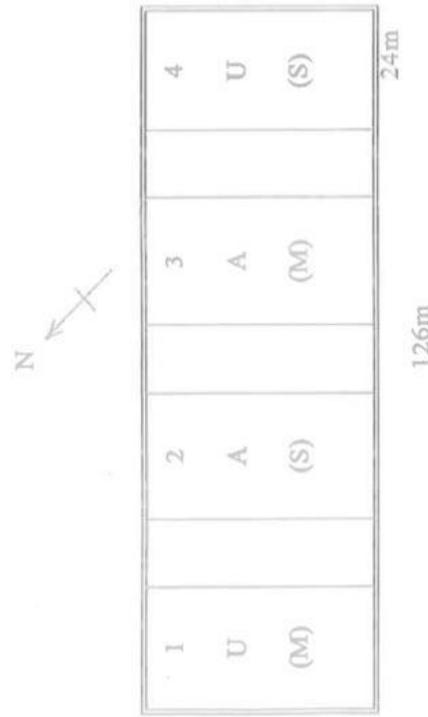
Tanks will be pumped out  
 to a rain gun or a tanker

Pumping & cleaning tanks to  
 be done by Farm

// All other operations by Farm

1995 as 1989  
 Hereward dressed Panocline @ 375 seeds/m<sup>2</sup> on 9 Oct 1995  
 NPK as S.F.P.





Treatments  
Direction of all cultivations and planting

- A Across the plots
- U Up and down the plots

Cultivation practice

- (M) Minimum tillage : 1989 & 95 potato haulm pulverized and retained  
                           : 1990, 1, 3, 4, 6 & 7 straw chopped and tined to 10 cm  
                           : 1992 & 8 sugar beet tops retained  
                           : 1989 & 95 potato haulm removed  
                           : 1990, 1, 3, 4, 6 & 7 straw removed  
                           : 1992 & 8 sugar beet tops removed
- (S) Standard practice : 1989 & 95 potato haulm removed  
                           : 1990, 1, 3, 4, 6 & 7 straw removed

Variety  
Nector dressed TMID and Gaucho sown at 10 seeds/m<sup>2</sup>  
on 19 March 1998

Basal manuring  
NPK and Na at sfp

Design  
2 blocks of 2 x 2

Plot area  
24 m x 36 m = 0.0864 ha

- // Tanks will be pumped out to a rain gun or a tanker  
   // Pumping and cleaning tanks to be done by Farm  
   // All operations by Farm

The relationship between plots is not as shown above but  
as indicated by the North points



- Order of operations 1997/8  
   Mid-November : (S) plots ploughed and pressed  
                           (M) plots uncultivated  
   (S) plots cultivated to seedbed  
                           (M) plots ploughed and cultivated to  
                          seedbed

Mid-February: