

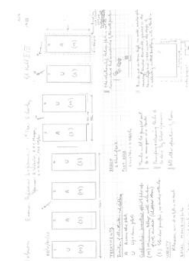
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ROTHAMSTED
RESEARCH

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

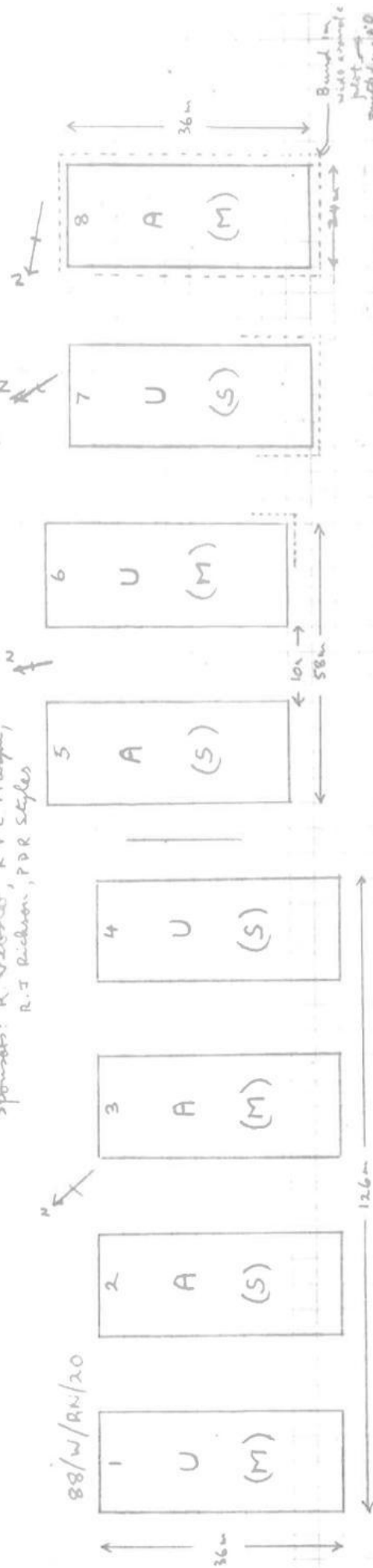
206

Wolcott

Exon. Reference Experiments 1st Year S. Barley
Sponsors: R. Webster, R. P. C. Morgan,
R. J. Dickson, P. R. Styles

Exp. Hill II / III

1988



TREATMENTS

Direction of all cultivation and drilling

- A Across the plots
- U Up & down plots

Cultivation practice, applied to first crop
(M) Minimum tillage with retention
of crop residues (chopped straw)
(S) Standard practice, no residue retention

VARIETY

Blaxton, sown at 150 kg/ha on 30 March

BASAL MANURING plots

'Nikam' at 340 kg on 5 May

DESIGN

2 blocks of 2x2

PLOT AREA

$$24m \times 36m = 0.864 \text{ ha}$$

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



Bunds are 10-30 cm high, 1m wide, erected after sowing, tractor-traversable, graded on the down-slope end 1:100 across the slope to a collecting outlet emptying into a tank:-



* when to implement is indicated

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

Pumping & cleaning tanks to be done by Silco & Sonars

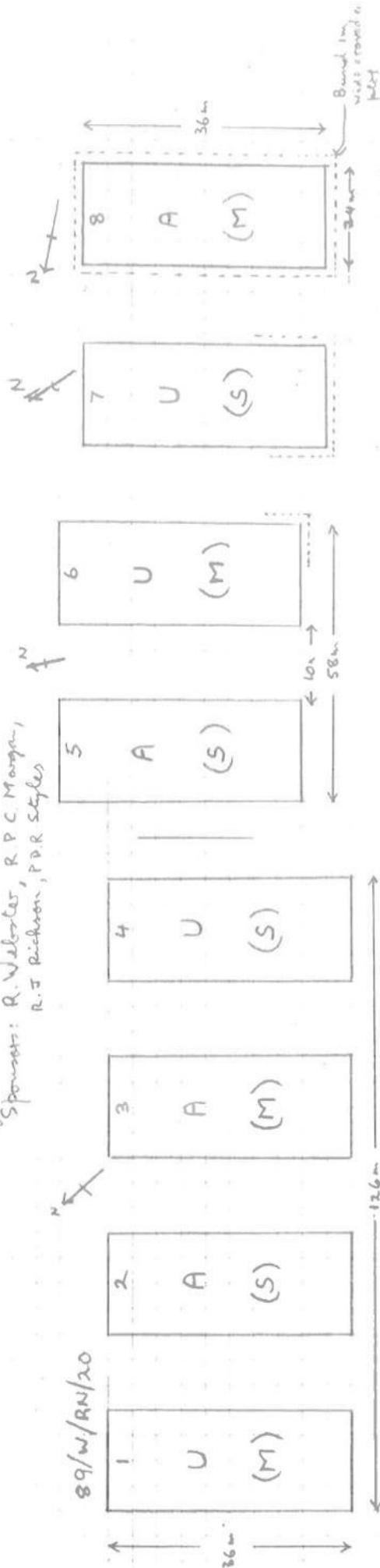
All other operations by Farm

206

Woburn Exon Reference Experiment 2nd Year Potatoes
Sponsors: R. Webster, R.P.C. Morgan,
R.F. Rickson, P.R. Styles

Egt Hill II/III

1989



TREATMENTS

Direction of all cultivation and planting

- A Across the plots
- U Up & down plots

Cultivation practice

- (M) Minimum tillage: 1988 barley straw chopped & tined into 10cm
- 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

DESIGN

2 block of 2x2

PLOT AREA

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

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

Pumping & cleaning tanks to be done by Silco & Sons

All other operations by Farm

Boril on average at 5 kg to seedbed

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



Bunds are 10-30cm high, 1m wide, seeded after planting, tractor-traversable, graded on the down slope and 1:200 across the slope to a collecting outlet emptying into a tank:-



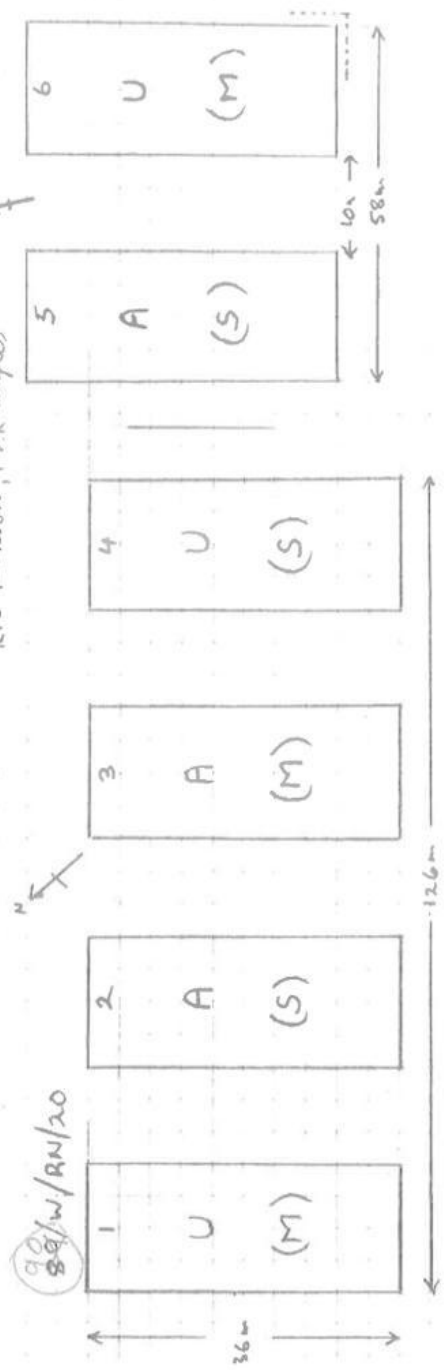
206
90
1989

Eft Hill II/III

Woburn Erroris Reference Experiment 3rd Year W. Wheat

Sponsors: R. Webster, R.P.C. Morgan,
R.J. Richson, P.R. Styles

90
89/W/RN/20



TREATMENTS

Direction of all cultivation and planting

- A Across the plots
- U Up & down plots

Cultivation practice

- (M) Minimum tillage: 1989 potato haulm pulverized & retained to a minimum or a tender
- (S) Standard practice: 1989 potato haulm removed
- 1990 wheat straw chopped & raked in to 10cm
- 1990 potato haulm removed
- 1990 wheat straw baled & removed

VARIETY

Marcia sown @

Kg/ha, Date:

BASAL MANURING

S.F.P.

DESIGN

2 blocks of 2x2

PLOT AREA

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

Tanks will be pumped out to a main gun or a tender

Pumping & cleaning tanks to be done by Silver & Sons

All other operations by Farm

7.9.89

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



Row

Bunds are 10-30cm high, 1m wide, erected after sowing, tractor-travelled, graded on the down slope and 11:00 across the slope to a collecting outlet emptying into a tank:-



200

WOUBURN
91/W/RN/20

W. barley

EROSION REFERENCE EXPERIMENT
Sponsors J.A. Catt, RPC Morgan,
R.J. Rickson, PDR Styles

4th Year

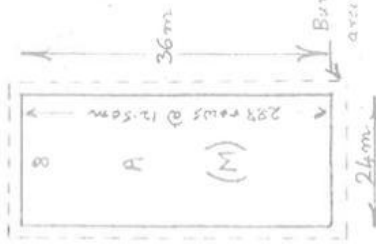
GREAT HILL II/III

1991

N



N



Bund 1m wide
around each plot

TREATMENTS

Direction of all cultivations and plowing

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

Cultivation practice

- M) Minimum tillage: 1989 plots: harrow, pulverizer & retained
- : 1990 wheat straw chopped & lined 10cm
- : 1991 barley straw

- S) Standard practice: 1989 plots: harrow, pulverizer & retained
- : 1990 wheat straw baled & removed
- : 1991 barley straw

VARIETY

Magis

DISPATCH RICHARDSON

DESIGN

2 blocks of 2x2

PLOT AREA

24m x 36m = 0.864ha

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

Pumping & cleaning tanks to
be done by Silcock Spongers

ALL other operations by farm

22. SEP 1990

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



8

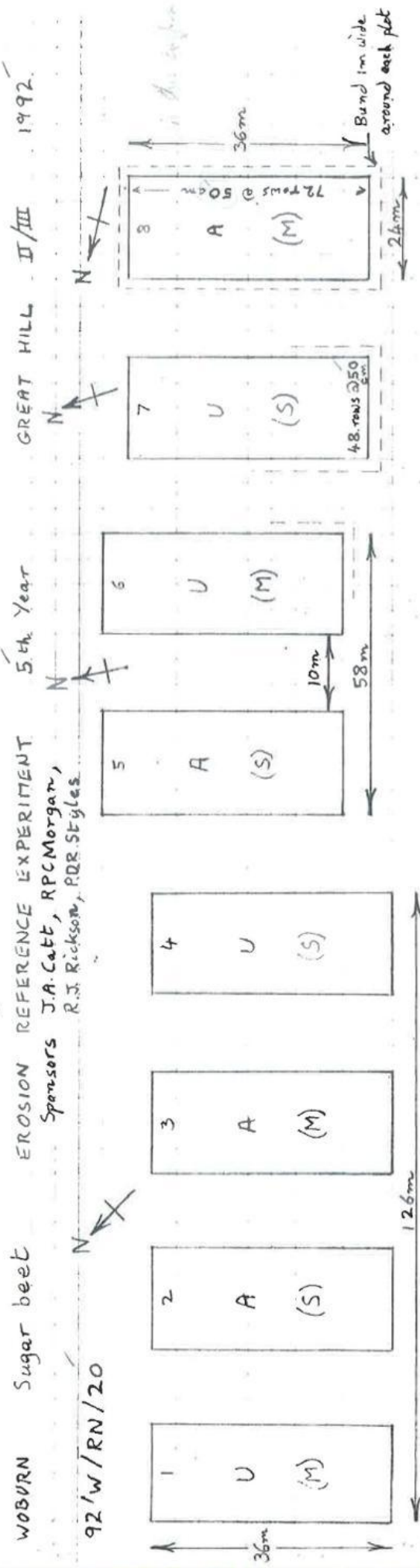
ROAD

COMPLETE & RETURN

TO F.E.S.

9 AUG

205



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

Cultivation practice
 M) Minimum tillage: 1989 potato haulm pulverized & retained
 : 1990 wheat straw chopped & retained to 10cm
 : 1991 barley straw
 : 1992 s. beet tops retained

S) Standard practice
 : 1989 potato haulm removed
 : 1990 wheat straw baled & removed
 : 1991 barley straw
 : 1992 s. beet tops removed
 : sown at 1:10/ha on

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

DESIGN
 2 blocks of 2x2

PLOT AREA
 24m x 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

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

VARIETY

BASAL MANURING N in spring

CHECKED

DATE 9.10.1996

205

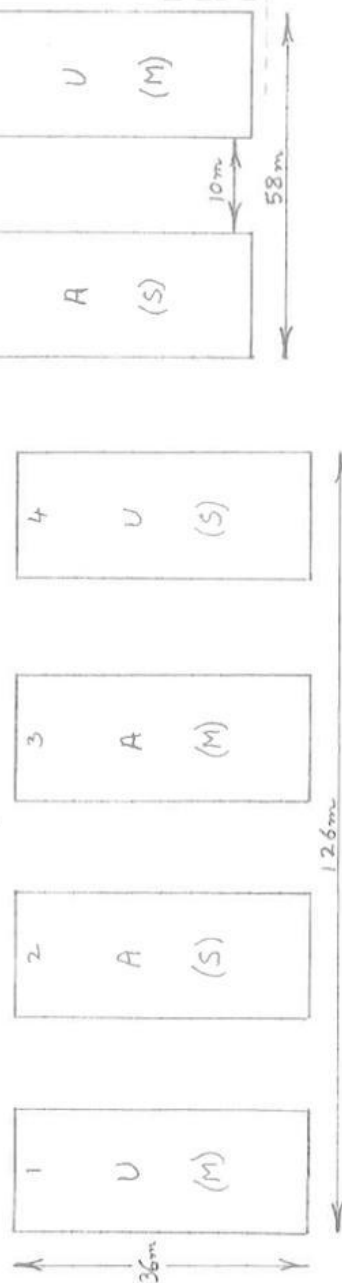
WOBBURN W. wheat

93/W/RN/20

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

6th Year

GREAT HILL II/III 1993



TREATMENTS

Direction of all cultivations and planting

A Across the plots

U Up and down the plots.

Cultivation practice

M) Minimum tillage: 1989 potato haulm pulverized & retained

: 1990 wheat straw chopped & retained to 10cm

: 1991 barley straw

: 1992 S. bar. f. tops retained

: 1993 wheat straw chopped & retained to 10cm

S) Standard practice : 1989 potato haulm removed

: 1990 wheat straw baled & removed

: 1991 barley straw ..

: 1992 S. bar. f. tops removed

: 1993 wheat straw baled & removed

soil at 15g ha⁻¹ on

VARIETY ~~Maria~~ sown at 15g ha⁻¹ on
DISAL MANURE: NPK Na Mg at 50g

DESIGN

2 blocks of 2x2

PLOT AREA

24m x 36m = 0.864 ha

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

Pumping & cleaning tanks to
be done by Silcock sponsors

ALL other operations by Farm

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

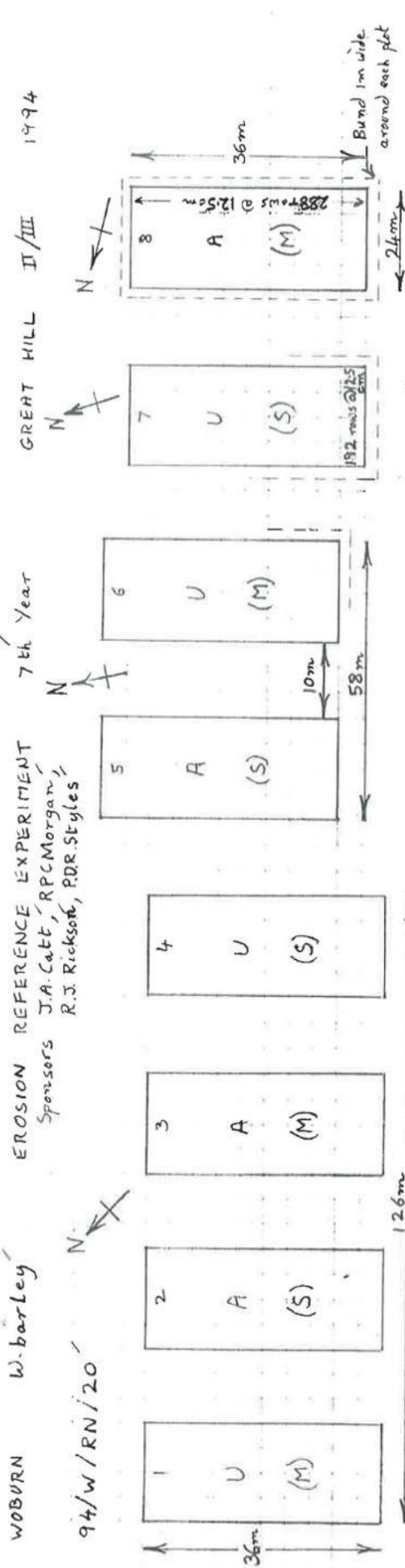


COMPLETE & RETURN

TO F. E. S.

Drilled 26 Jan 1993

Sorssow 2 166 kg ha



TREATMENTS

Direction of all cultivations and planting

A Across the plots

U Up and down the plots.

Cultivation practice

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

: 1990 wheat straw chopped & tined to 10cm

: 1991 barley straw

: 1992 s-beet tops retained

: 1993 & 4 straw chopped & tined to 10cm

: 1989 potato haulm removed

: 1990 wheat straw baled & removed

: 1991 barley straw

: 1992 s-beet tops removed

: 1993 & 4 straw baled & removed

kg ha⁻¹ on

VARIETY Puffin sown at

Basal Manure NPK Na Mg at 5FP.

DESIGN

2 blocks of 2x2

PLOT AREA

$$\frac{24m \times 36m}{100} = 0.0864ha$$

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

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



8

ROAD

CHECKED ATB

DATE 17 8 93

205

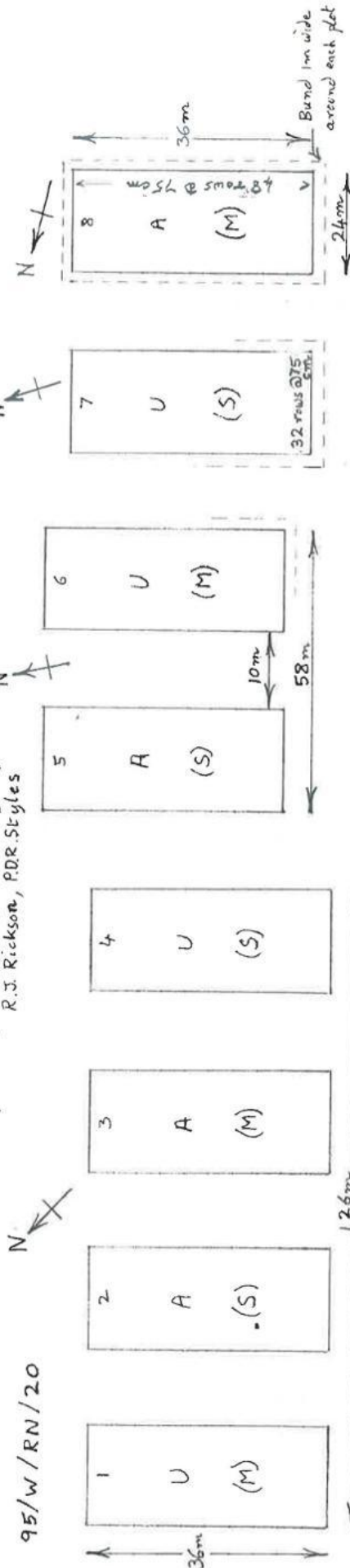
WOBBURN Potatoes

EROSION REFERENCE EXPERIMENT
Sponsors; J.A. Catt, R.P.C. Morgan,
R.J. Rickson, P.D.R. Styles

8th Year

GREAT HILL II/III 1995

95/W/RN/20



TREATMENTS

Direction of all cultivations and planting

A Across the plots

U Up and down the plots.

Cultivation practice

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

: 1990 & 1 straw chopped & retained to 10cm

: 1992 5: beet tops retained

: 1993 & 4 straw chopped & retained to 10cm

: 1995 do 1989

(S) Standard practice: 1989 potato haulm removed

: 1990 & 1 straw baled & removed

: 1992 5: beet tops removed

: 1993 & 4 straw baled & removed

: 1995 do 1989

VARIETY

DESIGNATION: NPK Na Mg at SFP.

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

DESIGN

2 blocks of 2x2

PLOT AREA

24m x 36m = 0.0864 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

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



8

ROAD

COMPLETE & RETURN

10 F. E. S.

205

WOBBURN W. wheat

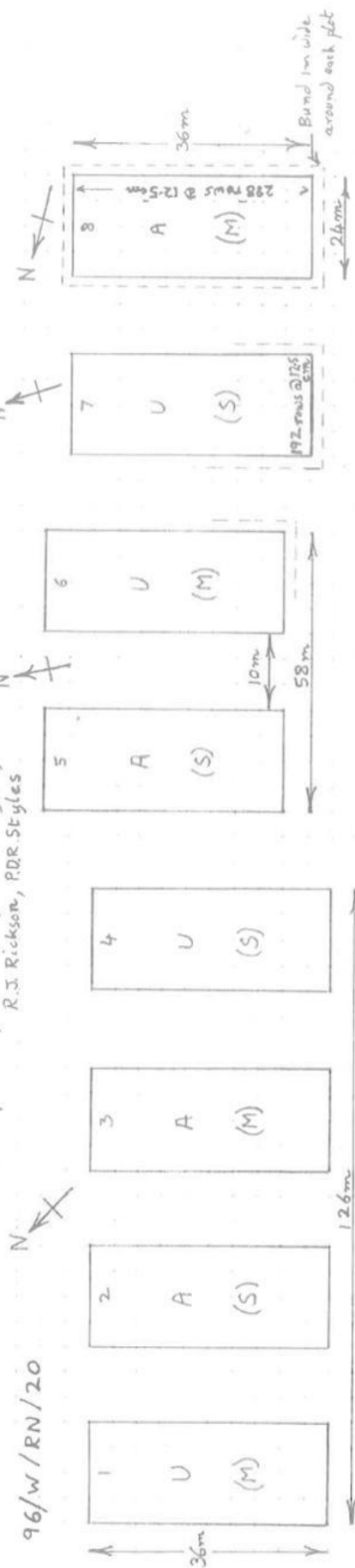
96/W/RN/20

EROSION REFERENCE EXPERIMENT
Sponsors: J.A. Catt, R.P.C. Morgan,
R.I. Rickson, P.D.R. Styles

9th Year

GREAT HILL II/III

1996



TREATMENTS

Direction of all cultivations and planting

A Across the plots

U Up and down the plots.

Cultivation practice

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

: 1990 & 1 straw chopped & retained to 10cm

: 1992 5: beet tops retained

: 1993, 486 straw chopped & retained to 10cm

: 1995, 20 1989

(S) Standard practice: 1989 potato haulm removed

: 1990 & 1 straw baled & removed

: 1992 5: beet tops removed

: 1993, 486 straw baled & removed

: 1995 20 1989

VARIETY Hereward dressed Panactina @ 375 seeds/m² on 9 Oct 1995

DISEASE MANAGEMENT NPK as S.F.P.

DESIGN

2 blocks of 2x2

PLOT AREA

24m x 36m = 0.0864ha

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

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



8

ROAD

205

WOBURN W. barley

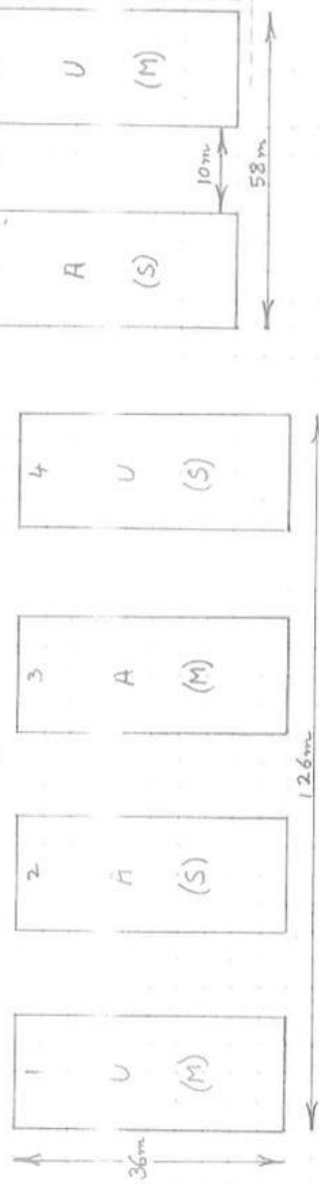
EROSION REFERENCE EXPERIMENT

10th Year

GREAT HILL II/III 1997

Sponsors: J.A. Catt, RPC Morgan,
R.J. Rickson, PDR Styles

97/W/RN/20



TREATMENTS

Direction of all cultivations and ploughing

A Across the plots

U Up and down the plots.

Cultivation practice

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

: 1990 & 1 straw chopped & retained to 10cm

: 1992 5: beet tops retained

: 1993, 4, 6, 7 straw chopped & retained to 10cm

: 1995, as 1989

(S) Standard practice: 1989 potato haulm removed

: 1990 & 1 straw baled & removed

: 1992 5: beet tops removed

: 1993, 4, 6, 7 straw baled & removed

: 1995 as 1989

VARIETY Gleam dressed Raxils sown @ 400 seeds/m² on 3 Oct 1996

BASAL MANURE NPK as SFP.

DESIGN

2 blocks of 2x2

PLOT AREA

24m x 36m = 0.0864 ha

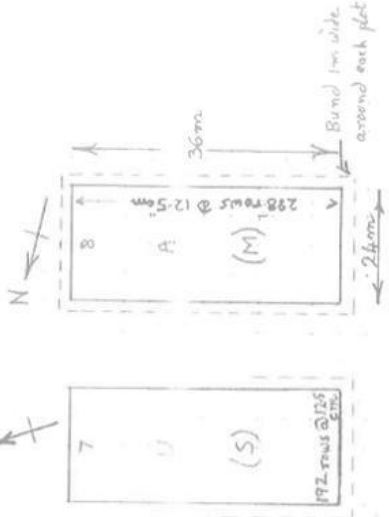
Tanks will be pumped out

to a rain gun or a tanker

Pumping & cleaning tanks to

be done by Farm

All other operations by Farm



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



8

ROAD

98/W/RN/20

Erosion Reference Experiment

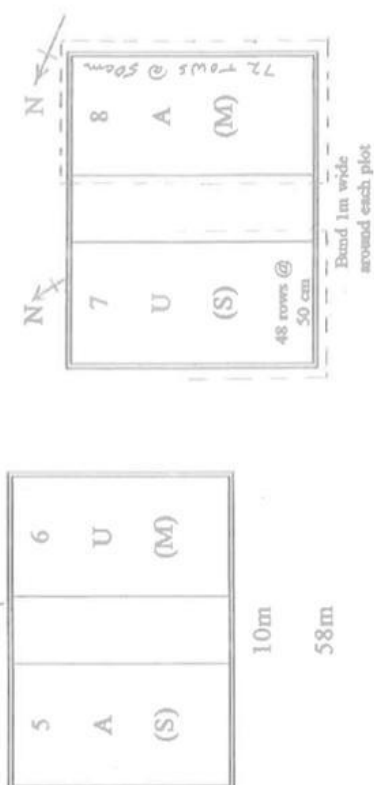
Fodder beet

11th year

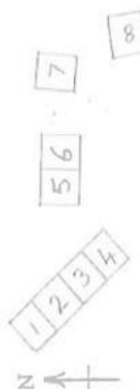
Sponsors: A.M. Hunt

Great Hill II/III

205



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



Variety
Nestor dressed TM1D and Gaucho sown at 10 seeds/m² 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 = 0.864 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

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

(S) Standard practice : 1989 & 95 potato haulm removed
: 1990,1,3,4,6 & 7 straw removed
: 1992 & 8 sugar beet tops removed