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# Results of the Classical and Other Long-term Experiments 2006

Results of the  
Classical  
and other  
Long-term Experiments  
2006

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## 06/R/BK/1 - Broadbalk

### Rothamsted Research

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# BROADBALK

**Object:** To study the effects of organic manures and inorganic fertilisers on continuous w. wheat and wheat in rotation. From 1968 two three-year rotations were included: potatoes, beans, w. wheat and fallow, w. wheat, w. wheat. In 1979 the first rotation was changed to fallow, potatoes, w. wheat. In 1980 the second rotation reverted to continuous w. wheat. Since 1985 part of the second rotation was added to the first to extend the rotation to fallow, potatoes, w. wheat, w. wheat, w. wheat, in 1996 the fallow was replaced by w. oats and potatoes replaced by maize in 1997.

The 162<sup>nd</sup> year, w. wheat, w. oats and forage maize.

For previous years see 'Details' 1967 and 1973, Station Report for 1966, pp. 229-231; Station Report for 1968, Part 2; Station Report for 1982, Part 2, pp. 5-44 and 74-05R//BK/1.

## Areas harvested:

|        |             |                               |
|--------|-------------|-------------------------------|
| Wheat: | Section     |                               |
|        | 0           | 0.00320                       |
|        | 1           | 0.00589                       |
|        | 2,4,6 and 7 | 0.00487 (* see note 4, below) |
|        | 8,9         | 0.00512                       |
| Oats:  | 3           | 0.00487                       |
| Maize: | 5           | 0.00162                       |

## Treatments:

In 2001 a number of the treatments were changed. The treatments are now: -

Whole plots

| PLOT                 | Fertilizers and organic manures |                                  |
|----------------------|---------------------------------|----------------------------------|
|                      | Treatments                      |                                  |
|                      | Plot                            | from 2001                        |
| 01 (FYM) N4          | 01                              | N4                               |
| 21 FYMN3             | 2.1                             | FYM N2 <sup>(1)</sup>            |
| 22 FYM               | 2.2                             | FYM                              |
| 03 Nil               | 03                              | None                             |
| 05 (P) KMg           | 05                              | (P) K Mg                         |
| 06 N1 (P) KMg        | 06                              | N1 (P) K Mg                      |
| 07 N2 (P) KMg        | 07                              | N2 (P) K Mg                      |
| 08 N3 (P) KMg        | 08                              | N3 (P) K Mg                      |
| 09 N4 (P) KMg        | 09                              | N4 (P) K Kg                      |
| 10 N4                | 10                              | N4                               |
| 11 N4 PMg            | 11                              | N4 P Mg                          |
| 12 N1+3+1 (P) K2 Mg2 | 12                              | N1+3+1 (P) K2 Mg2 <sup>(2)</sup> |
| 13 N4 PK             | 13                              | N4 P K                           |
| 14 N4 PK* (Mg*)      | 14                              | N4 P K* (Mg*)                    |
| 15 N5 (P) KMg        | 15                              | N5 (P) K Mg                      |
| 16 N6 (P) KMg        | 16                              | N6 (P) K Mg                      |
| 17 N1+4+1 PKMg       | 17                              | N1+4+1 P K Mg                    |
| 18 N1+2+1 PKMg       | 18                              | N1+2+1 P K Mg                    |

|                              |    |             |
|------------------------------|----|-------------|
| 19N1+1+1KMg                  | 19 | N1+1+1 K Mg |
| 20N4KMg                      | 20 | N4 K Mg     |
| (1) FYM N3 since 2005        |    |             |
| (2) N1+3+1 (P)KMg since 2006 |    |             |

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W. oats; Nitrogen and farmyard manure were not applied.

N1,N2,N3,N4,N5,N6: 48, 96, 144, 192, 240, 288 kg N as 33.5% N; to be applied at the same time as the second dressings in the split nitrogen plots for wheat and to the seedbed for forage maize.

Split N to wheat

N1+1+1, 1+2+1 etc: Rates as above. Timings: first two weeks of March, GS31 or mid-April (whichever comes first) and GS37/mid-May.

Split N to forage maize

N2+1,2+2,2+3,2+4: Rates as above. Timings: to the seedbed and post-emergence.

P: 35 kg P as triple superphosphate.

(P): (none), to be reviewed in 2010/11.

K: 90 kg K as potassium sulphate.

K2: 180 kg K as potassium sulphate (plus 450 kg K autumn 2000 only).

K\*: 90 kg K as potassium chloride.

Mg: 12 kg Mg as kieserite.

Mg2: 24 kg Mg as kieserite (plus 60 kg Mg, autumn 2000 only).

(Mg\*): (none), to be reviewed in 2010/11.

FYM: Farmyard manure at 35 t

Previous treatment: -

Whole plots

## PLOT

## Fertilizers and organic manures:-

|          | Plot | Treatments<br>until 1967 | Treatments<br>from 1968 | Treatments<br>from 1985 - 2000 |
|----------|------|--------------------------|-------------------------|--------------------------------|
| 01DN4PK  | 01   | -                        | D N2 P K                | D N4 P K                       |
| 21DN2    | 21   | D                        | D N2                    | D N2                           |
| 22D      | 22   | D                        | D                       | D                              |
| 030      | 03   | None                     | None                    | None                           |
| 05F      | 05   | P K Na Mg                | P K (Na) Mg             | PK Mg                          |
| 06N1F    | 06   | N1 P K Na Mg             | N1 P K (Na) Mg          | N1 P K Mg                      |
| 07N2F    | 07   | N2 P K Na Mg             | N2 P K (Na) Mg          | N2 P K Mg                      |
| 08N3F    | 08   | N3 P K Na Mg             | N3 P K (Na) Mg          | N3 P K Mg                      |
| 09N4F    | 09   | N*1 P K Na Mg            | N4 P K (Na) Mg          | N4 P K Mg                      |
| 10N2     | 10   | N2                       | N2                      | N2                             |
| 11N2P    | 11   | N2 P                     | N2 P                    | N2 P                           |
| 12N2PNA  | 12   | N2 P Na                  | N2 P Na                 | N2 P Na                        |
| 13N2PK   | 13   | N2 P K                   | N2 P K                  | N2 P K                         |
| 14N2PKMG | 14   | N2 P Mg                  | N2 P K Mg               | N2 P K Mg                      |
| 15N5F    | 15   | N2 P K Na Mg             | N3 P K (Na) Mg          | N5 P K Mg                      |
| 16N6F    | 16   | N*2 P K Na Mg            | N2 P K (Na) Mg          | N6 P K Mg                      |
| 17N1+3FH | 17   | N2 (A)                   | N2 ½[P K (Na) Mg]       | N1+3 ½[PK Mg] (A)+             |
| 18N0+3FH | 18   | P K Na Mg (A)            | N2 ½[P K (Na) Mg]       | N0+3 ½[PK Mg] (A)+             |
| 19 (C)   | 19   | C                        | C                       | (C) (since 1989)               |
| 20N2KMG  | 20   | N2 K Na Mg               | N2 K (Na) Mg            | N2 K Mg                        |

(A) Alternating each year

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+ This change since 1980. Treatments shown are those to w. wheat; autumn N alternates. Maize received N3 ½[PK Mg] on both plots 17 and 18. These treatments shown incorrectly in 1999-02 Yield books.  
W. oats; Nitrogen and dung were not applied.

N1,N2,N3,N4,N5,N6: 48, 96, 144, 192, 240, 288 kg N as sulphate of ammonia until 1967, except N\* which was nitrate of soda. All as 'Nitro-Chalk' in spring from 1968 to 1985, as 34.5% N since 1986.  
N0+3; N1+3: None in autumn + 144 kg N in spring; 48 kg N in autumn + 144 kg N in spring  
P: 35 kg P as triple superphosphate in 1974 and since 1988, single superphosphate in other years  
K: 90 kg K as sulphate of potash  
Na: 55 kg Na as sulphate of soda  
(Na): 16 kg Na as sulphate of soda until 1973  
Mg: 30 kg Mg annually to Plot 14 (applied at 26 kg 1990 to 2000), 35 kg Mg every third year to other plots since 1974 (applied at 30 kg in 1991, 1994, 1997 and 2000 and at 15 kg on half rate treatments). All as kieserite since 1974, previously as sulphate of magnesia annually  
D: Farmyard manure at 35 t  
(C): Castor meal to supply 96 kg N until 1988, none since  
F: Full rate P K (Na) Mg as above H: Half rate of above

Strips of sub-plots: Until 1967 wheat alone was grown on the experiment, with some bare fallowing. From 1968, the experiment was divided into 10 sections with the following cropping:-

## SECTION

| Section | 1 | 9 | 0* | 8+ | 6** | 5 | 3 | 7  | 4  | 2  |
|---------|---|---|----|----|-----|---|---|----|----|----|
| Year    |   |   |    |    |     |   |   |    |    |    |
| 1968    | W | W | W  | W  | F   | W | W | P  | W  | BE |
| 1969    | W | W | W  | W  | W   | F | W | BE | P  | W  |
| 1970    | W | W | W  | W  | W   | W | F | W  | BE | P  |
| 1971    | W | W | W  | W  | F   | W | W | P  | W  | BE |
| 1972    | W | W | W  | F  | W   | F | W | BE | P  | W  |
| 1973    | W | W | W  | W  | W   | W | F | W  | BE | P  |
| 1974    | W | W | W  | W  | F   | W | W | P  | W  | BE |
| 1975    | W | W | W  | W  | W   | F | W | BE | P  | W  |
| 1976    | W | W | W  | W  | W   | W | F | W  | BE | P  |
| 1977    | W | W | W  | W  | F   | W | W | P  | W  | BE |
| 1978    | W | W | W  | W  | W   | F | W | BE | P  | W  |
| 1979    | W | W | W  | W  | W   | W | F | W  | P  | F  |
| 1980    | W | W | W  | W  | W   | W | W | F  | W  | P  |
| 1981    | W | W | W  | F  | W   | W | W | P  | F  | W  |
| 1982    | W | W | W  | W  | W   | W | W | W  | P  | F  |
| 1983    | W | W | W  | W  | W   | W | W | F  | W  | P  |
| 1984    | W | W | W  | W  | W   | W | W | P  | F  | W  |
| 1985    | W | W | W  | W  | W   | F | W | W  | P  | W  |
| 1986    | W | W | W  | W  | W   | P | F | W  | W  | W  |
| 1987    | W | W | W  | W  | W   | W | P | W  | W  | F  |
| 1988    | W | W | W  | F  | W   | W | W | F  | W  | P  |

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**SECTION**

| Section | 1 | 9 | 0* | 8+ | 6** | 5 | 3 | 7 | 4 | 2 |
|---------|---|---|----|----|-----|---|---|---|---|---|
| Year    |   |   |    |    |     |   |   |   |   |   |
| 1989    | W | W | W  | W  | W   | W | W | P | F | W |
| 1990    | W | W | W  | W  | W   | F | W | W | P | W |
| 1991    | W | W | W  | W  | W   | P | F | W | W | W |
| 1992    | W | W | W  | W  | W   | W | P | W | W | F |
| 1993    | W | W | W  | W  | W   | W | W | F | W | P |
| 1994    | W | W | W  | F  | W   | W | W | P | F | W |
| 1995    | W | W | W  | W  | W   | F | W | W | P | W |
| 1996    | W | W | W  | W  | W   | P | O | W | W | W |
| 1997    | W | W | W  | W  | W   | W | M | W | W | O |
| 1998    | W | W | W  | W  | W   | W | W | O | W | M |
| 1999    | W | W | W  | W  | W   | W | W | M | O | W |
| 2000    | W | W | W  | W  | W   | O | W | W | M | W |
| 2001    | W | W | W  | F  | W   | M | O | W | W | W |
| 2002    | W | W | W  | W  | W   | W | M | W | W | O |
| 2003    | W | W | F  | W  | W   | W | W | O | W | M |
| 2004    | W | W | F  | W  | W   | W | W | M | O | W |
| 2005    | W | W | W  | W  | W   | O | W | W | M | W |
| 2006    | W | W | W  | W  | W   | M | O | W | W | W |

W = w. wheat, O = w. oats (spring oats 2001), P = potatoes, BE = s. beans, F = fallow, M = forage maize

\* Straw incorporated since autumn 1986. \*\* No sprays except weedkillers since 1985. + No weedkillers.

- NOTES:**
- (1) For a fuller record of treatments see 'Details' etc.
  - (2) From autumn 1975 to autumn 1986, chalk was applied at 2.9 t each autumn to all plots in sets of Sections on a three-year cycle. Year 1: Sections 1,2,3. Year 2: Sections 6,7,8,9. Year 3: Sections 0,4,5. From autumn 1988 until autumn 1992 a five-year cycle was used. Year 1: Sections 1,3. Year 2: Sections 2,8. Year 3: Sections 7,9. Year 4: Sections 4,6. Year 5: Sections 0,5. None applied since autumn 1991.
  - (3) In 2003 and 2004 section 0 was used for an experiment (CS/595) investigating different herbicides to control *Equisetum arvense*.
  - (4) Plots 2.2, 06, 09 and 14 on Section 4 used for a nutrition trial with the application of urea. 5m was cut off the end of these plots before the yield measurement was taken.

**Experimental diary:**

All sections:

27-Aug-05 Weedazol-TL at 20 l in 200 L (excluding Sections 4 and 8).  
 27-Sep-05 P TSP at 171 kg, strips 11, 13, 14, 17, & 18.  
 28-Sep-05 K\* Muriate of potash at 181 kg, strip 14.  
 28-Sep-05 FYM FYM at 35.0 tonnes, strips 2.1 & 2.2, not to Section 3.  
 29-Sep-05 Ploughed 25 cm wide furrows.  
 10-Oct-05 Cultipressed.  
 13-Mar-06 MG Kieserite at 80 kg, strips 5 - 9, 11, 12, 15 - 20.  
 K Sulphate of potash at 217 kg, strips 5 - 9, 12, 13, 15 - 20.  
 18-Mar-05 Rolled, not to Section 4.

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**Experimental diary:**

Cropped sections:

**Winter wheat**

11-Oct-05 Combination drilled, Hereward, tr. Sibutol Secur, at 350 seeds/m<sup>2</sup> with the Accord drill and rolled.  
 17-Oct-05 Ice at 4.00 l in 200 l, excluding Section 8.  
 27-Oct-05 Decoy Wetex at 5.0 kg  
 07-Dec-05 Hallmark with Zeon Technology at 50 ml in 200 l.  
 21-Dec-05 Decoy Wetex at 5.0 kg  
 14-Jan-05 IPU 500 at 5.0 l in 200 l, excluding Section 8 (2.9m on east end of plot 218 sprayed in error).  
 13-Mar-06 1<sup>st</sup> split N applied.  
 17-Apr-06 tm)Bravo 500 at 1.0 l in 200 l, excluding Section 6.  
 tm)Flexity at 0.2 l in 200 l, excluding Section 6.  
 tm)Opus at 0.75 l in 200 l, excluding Section 6.  
 20-Apr-06 Main N and 2<sup>nd</sup> split N applied.  
 12-May-06 Ally Max SX at 42 g in 200 l, excluding Section 8.  
 17-May-06 3<sup>rd</sup> split N applied.  
 28-May-06 Starane 2 at 0.75 l in 200 l, excluding Section 8.  
 01-Jun-06 tm)Vivid at 0.4 l in 200 l, excluding Section 6.  
 tm)Bravo 500 at 1.0 l in 200 l, excluding Section 6.  
 tm)Opus at 0.75 l in 200 l, excluding Section 6.  
 06-Aug-06 Combine harvested discards, baled straw.  
 23-Aug-06 Combine harvested plots for yield, swathed straw, sampled and weighed straw.  
 25-Aug-06 Combine harvested discards, swath and baled straw.

**W. oats**

11-Oct-05 Combination drilled, Gerald, tr. Sibutol, at 350 seeds/m<sup>2</sup> with the Accord drill and rolled.  
 27-Oct-05 Decoy Wetex at 5.0 kg  
 14-Nov-05 Lexus Class at 60 g in 200 l.  
 Hallmark with Zeon Technology at 50 ml in 200 l.  
 21-Dec-05 Decoy Wetex at 5.0 kg  
 12-May-06 Ally Max SX at 42 g in 200 l.  
 28-May-06 Starane 2 at 0.75 l in 200 l.  
 02-Jun-06 tm)Amistar at 0.6 l in 200 l.  
 tm)Opus at 0.4 l in 200 l.  
 tm)Flexity at 0.2 l in 200 l.  
 25-Jul-06 Combine harvested plots for yield, swathed straw.  
 Combined discards, swathed straw.  
 26-Jul-06 Sampled and weighed straw.  
 Baled straw.

**Forage maize**

26-Apr-06 Azural at 3.0 l in 200 l.  
 10-May-06 Main N and 1<sup>st</sup> split N applied.  
 Flexitined twice.  
 11-May-06 Power harrowed, drilled, Hudson, tr. Thiram, Methiocarb, Fludioxonil, Metalaxyl-M at 10.2 seeds/m<sup>2</sup>, with the Nodet Gougis drill.  
 05-Jun-06 2<sup>nd</sup> split N applied.  
 08-Jun-06 Samson at 1.5 l in 200 l.  
 25-Sep-06 Cut sample areas by hand, weighed, and sampled.  
 29-Sep-06 Cleared maize.

**NOTE:** Samples of wheat and oat grain and straw, and forage maize were taken for chemical analysis. Unground wheat grain and straw from Section 1 and maize samples from Section 4 were archived.

**NOTE:** STRAW DRY MATTER %

Due to an error while weighing sub samples (fresh and dry) an average dry matter percent was calculated for each section. The values for sections 1, 4, 8 were 85.8, 86.1 and 76.3 respectively.

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WHEAT

GRAIN TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

| SECTION<br>PLOT  | 4/W1  | 7/W2 | 2/W3 | 8/W5 | 6/W29 | 0/W2 | 1/W40 | 9/W48 |
|------------------|-------|------|------|------|-------|------|-------|-------|
| 01 (FYM)N4       | 10.10 | 9.51 | 6.94 | *    | 7.84  | *    | *     | *     |
| 21FYMN3          | 9.72  | 9.16 | 8.18 | 2.44 | 7.58  | 8.09 | 7.85  | 7.66  |
| 22FYM            | 6.40  | 6.05 | 5.84 | 2.99 | 5.82  | 5.50 | 5.65  | 6.20  |
| 03Nil            | 1.79  | 1.31 | 1.26 | 0.83 | 1.50  | 1.14 | 1.11  | 0.69  |
| 05 (P) KMg       | 1.96  | 1.47 | 1.19 | 1.20 | 1.33  | 1.20 | 1.26  | 1.13  |
| 06N1 (P) KMg     | 4.41  | 3.83 | 3.01 | 1.17 | 3.17  | 2.95 | 3.19  | 3.31  |
| 07N2 (P) KMg     | 7.07  | 5.87 | 4.43 | 1.55 | 4.65  | 4.52 | 5.59  | 5.05  |
| 08N3 (P) KMg     | 8.82  | 7.66 | 5.21 | 2.28 | 6.38  | 6.07 | 6.16  | 6.62  |
| 09N4 (P) KMg     | 9.53  | 8.12 | 6.73 | 2.79 | 7.64  | 7.57 | 7.31  | 7.16  |
| 10N4             | 6.15  | 2.36 | 3.70 | 0.89 | 1.81  | 1.39 | 3.04  | 0.66  |
| 11N4PMg          | 5.84  | 6.10 | 5.28 | 1.11 | 5.61  | 6.48 | 5.54  | 5.68  |
| 12N1+3+1 (P) KMg | 9.59  | 9.69 | 7.03 | 1.17 | 8.64  | 8.33 | 8.22  | 8.43  |
| 13N4PK           | 9.53  | 7.66 | 5.98 | 2.68 | 6.62  | 6.68 | 7.03  | 7.28  |
| 14N4PK* (Mg*)    | 9.58  | 7.81 | 5.73 | 1.78 | 6.93  | 7.63 | 7.52  | 7.38  |
| 15N5 (P) KMg     | 9.94  | 8.53 | 6.05 | 1.48 | 7.34  | 7.04 | 7.46  | 6.33  |
| 16N6 (P) KMg     | 9.50  | 8.91 | 6.87 | 1.28 | 8.21  | 8.33 | 8.15  | 7.47  |
| 17N1+4+1PKMg     | 9.25  | 8.97 | 8.08 | 0.57 | 7.63  | 7.93 | 7.34  | 6.88  |
| 18N1+2+1PKMg     | 9.53  | 8.91 | 7.06 | 1.19 | 7.76  | 7.32 | 6.69  | 5.81  |
| 19N1+1+1KMg      | 8.35  | 7.28 | 5.37 | 1.08 | 6.08  | 6.44 | 6.32  | 4.81  |
| 20N4KMg          | *     | *    | *    | *    | *     | 0.89 | 1.17  | *     |

GRAIN MEAN DM% 83.7

ESTIMATED STRAW TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

| SECTION<br>PLOT  | 4/W1 | 8/W5 | 1/W40 |
|------------------|------|------|-------|
| 01 (FYM)N4       | 6.04 | *    | *     |
| 21FYMN3          | 6.31 | 5.10 | 6.24  |
| 22FYM            | 4.12 | 5.69 | 4.70  |
| 03Nil            | 0.54 | 1.93 | 0.41  |
| 05 (P) KMg       | 0.67 | 3.28 | 0.29  |
| 06N1 (P) KMg     | 1.97 | 3.89 | 1.22  |
| 07N2 (P) KMg     | 3.54 | 3.98 | 2.59  |
| 08N3 (P) KMg     | 4.12 | 3.84 | 2.90  |
| 09N4 (P) KMg     | 5.31 | 4.38 | 3.43  |
| 10N4             | 1.92 | 3.07 | 1.22  |
| 11N4PMg          | 2.12 | 2.56 | 2.14  |
| 12N1+3+1 (P) KMg | 4.85 | 3.01 | 4.49  |
| 13N4PK           | 4.44 | 4.29 | 3.57  |
| 14N4PK* (Mg*)    | 3.96 | 4.14 | 3.34  |
| 15N5 (P) KMg     | 5.25 | 3.94 | 3.77  |
| 16N6 (P) KMg     | 4.75 | 3.05 | 4.37  |
| 17N1+4+1PKMg     | 4.89 | 2.02 | 4.06  |
| 18N1+2+1PKMg     | 5.05 | 2.82 | 3.43  |
| 19N1+1+1KMg      | 3.89 | 3.52 | 3.05  |
| 20N4KMg          | *    | *    | 0.46  |

STRAW MEAN DM% 82.7

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W. OATS

TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

| PLOT                | GRAIN | STRAW |
|---------------------|-------|-------|
| 01 (FYM) [N4]       | 6.97  | 3.05  |
| 21 [FYMN2]          | 8.92  | 4.50  |
| 22 [FYM]            | 8.00  | 4.02  |
| 03 Nil              | 1.95  | 0.35  |
| 05 (P) KMg          | 2.16  | 0.35  |
| 06 [N1] (P) KMg     | 2.47  | 0.40  |
| 07 [N2] (P) KMg     | 2.83  | 0.37  |
| 08 [N3] (P) KMg     | 3.43  | 0.82  |
| 09 [N4] (P) KMg     | 3.36  | 0.68  |
| 10 [N4]             | 5.09  | 1.86  |
| 11 [N4] PMg         | 6.72  | 2.85  |
| 12 [N1+3+1] (P) KMg | 3.13  | 0.59  |
| 13 [N4] PK          | 3.11  | 0.63  |
| 14 [N4] PK* (Mg*)   | 3.04  | 0.74  |
| 15 [N5] (P) KMg     | 5.04  | 1.58  |
| 16 [N6] (P) KMg     | 6.31  | 2.60  |
| 17 [N1+4+1] PKMg    | 5.27  | 1.78  |
| 18 [N1+2+1] PKMg    | 2.90  | 0.49  |
| 19 [N1+1+1] KMg     | 2.60  | 0.39  |
| MEAN DM%            | 90.8  | 82.0  |

FORAGE MAIZE

WHOLE CROP (100% DM) TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

| PLOT            | WHOLE CROP |
|-----------------|------------|
| 01 (FYM) N4     | 13.03      |
| 21 FYMN3        | 17.14      |
| 22 FYM          | 11.80      |
| 03 Nil          | 4.25       |
| 05 (P) KMg      | 2.36       |
| 06 N1 (P) KMg   | 6.55       |
| 07 N2 (P) KMg   | 9.98       |
| 08 N3 (P) KMg   | 11.23      |
| 09 N4 (P) KMg   | 10.92      |
| 10 N4           | 3.90       |
| 11 N4 PMg       | 3.10       |
| 12 N2+3 (P) KMg | 7.33       |
| 13 N4 PK        | 7.69       |
| 14 N4 PK* (Mg*) | 7.60       |
| 15 N5 (P) KMg   | 8.23       |
| 16 N6 (P) KMg   | 9.74       |
| 17 N2+4 PKMg    | 9.27       |
| 18 N2+2 PKMg    | 10.52      |
| 19 N2+1 KMg     | 7.75       |
| CROP MEAN DM%   | 36.0       |