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RESEARCH

# Yields of the Field Experiments 1980

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## 80/W/CS/174 Sowing Dates and Ccn

### Rothamsted Research

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80/W/CS/174

SOWING DATES AND CCN

Object: To study the residual effects of sowing date, a nematicide, a soil sterilant and previous cropping on the incidence of cereal cyst-nematode (*Heterodera avenae*) (CCN) and on the yield of s. oats in a soil known to contain a fungal parasite of the nematode - Woburn, Butt Close.

Sponsor: B.R. Kerry.

The sixth year, s. oats.

For previous years see 75/W/M/1 and 76-79/W/CS/174.

Design: Single replicate of 36 plots split into 2.

Whole plot dimensions: 2.13 x 6.70.

Treatments: All combinations of:-

Whole plots

1. CROP(76) Crop (cumulative 1975-76):  
WHEAT  
BARLEY  
OATS
2. SOW DATE(76) Sowing date (cumulative 1975-76):  
AUTUMN  
SPRING
3. NEMACIDE(78) Nematicide (cumulative 1975-78):  
NONE None  
OXAMYL Oxamyl at 8.8 kg
4. CROP(78) Crop in 1977 & 1978 (all spring sown)(all spring  
oats in 1979):  
WHEAT  
BARLEY  
OATS

Sub plots

5. STERILNT Sterilant:  
NONE None  
FORMALIN Formalin at 3000 l in 109000 l. To SOW DATE  
SPRING in 1976, 1977 and 1978 only.

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Basal applications: Manures: (20:10:10) at 400 kg, combine drilled.  
 Weedkillers: Mecoprop, bromoxynil and ioxynil ('Brittox' at 3.5 l in  
 280 l) applied twice, with fungicide on the second occasion. Fungicide:  
 Tridemorph at 0.53 kg. Irrigation (mm water):

|         |    |
|---------|----|
| 12 June | 20 |
| 23 July | 10 |
| Total   | 30 |

Seed: Manod, sown at 170 kg.

Cultivations, etc.: - Ploughed: 5 Nov, 1979. Heavy spring-tine cultivated:  
 28 Feb, 1980. Spring-tine cultivated with crumbler attached, seed  
 sown: 24 Mar. Missing rows resown, by hand: 17 Apr. Weedkillers  
 applied: 25 Apr, 13 May. Fungicide applied: 13 May. Combine  
 harvested: 27 Aug.

NOTE: Numbers of cereal cyst-nematodes in soil in April were counted.

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

| SOW DATE (76) | AUTUMN | SPRING | MEAN |      |
|---------------|--------|--------|------|------|
| CROP (76)     |        |        |      |      |
| WHEAT         | 4.07   | 4.10   | 4.09 |      |
| BARLEY        | 3.57   | 4.19   | 3.88 |      |
| OATS          | 3.87   | 4.03   | 3.95 |      |
| MEAN          | 3.83   | 4.11   | 3.97 |      |
| NEMACIDE (78) | NONE   | OXAMYL | MEAN |      |
| CROP (76)     |        |        |      |      |
| WHEAT         | 4.05   | 4.13   | 4.09 |      |
| BARLEY        | 3.63   | 4.13   | 3.88 |      |
| OATS          | 3.98   | 3.92   | 3.95 |      |
| MEAN          | 3.89   | 4.06   | 3.97 |      |
| NEMACIDE (78) | NONE   | OXAMYL | MEAN |      |
| SOW DATE (76) |        |        |      |      |
| AUTUMN        | 3.89   | 3.78   | 3.83 |      |
| SPRING        | 3.88   | 4.34   | 4.11 |      |
| MEAN          | 3.89   | 4.06   | 3.97 |      |
| CROP (78)     | WHEAT  | BARLEY | OATS | MEAN |
| CROP (76)     |        |        |      |      |
| WHEAT         | 4.13   | 4.27   | 3.86 | 4.09 |
| BARLEY        | 3.57   | 3.87   | 4.20 | 3.88 |
| OATS          | 4.16   | 3.93   | 3.76 | 3.95 |
| MEAN          | 3.95   | 4.02   | 3.94 | 3.97 |

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GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

|              |        |          |        |        |
|--------------|--------|----------|--------|--------|
| CROP(78)     | WHEAT  | BARLEY   | OATS   | MEAN   |
| SOW DATE(76) |        |          |        |        |
|              | AUTUMN | 3.84     | 3.93   | 3.83   |
|              | SPRING | 4.21     | 3.95   | 4.11   |
| MEAN         | 3.95   | 4.02     | 3.94   | 3.97   |
| CROP(78)     | WHEAT  | BARLEY   | OATS   | MEAN   |
| NEMACIDE(78) |        |          |        |        |
|              | NONE   | 3.87     | 3.98   | 3.89   |
|              | OXAMYL | 4.18     | 3.90   | 4.06   |
| MEAN         | 3.95   | 4.02     | 3.94   | 3.97   |
| STERILNT     | NONE   | FORMALIN | MEAN   |        |
| CROP(76)     |        |          |        |        |
|              | WHEAT  | 3.97     | 4.09   |        |
|              | BARLEY | 3.86     | 3.88   |        |
|              | OATS   | 3.94     | 3.95   |        |
| MEAN         | 4.02   | 3.92     | 3.97   |        |
| STERILNT     | NONE   | FORMALIN | MEAN   |        |
| SOW DATE(76) |        |          |        |        |
|              | AUTUMN | 3.85     | 3.83   |        |
|              | SPRING | 4.00     | 4.11   |        |
| MEAN         | 4.02   | 3.92     | 3.97   |        |
| STERILNT     | NONE   | FORMALIN | MEAN   |        |
| NEMACIDE(78) |        |          |        |        |
|              | NONE   | 3.85     | 3.89   |        |
|              | OXAMYL | 4.00     | 4.06   |        |
| MEAN         | 4.02   | 3.92     | 3.97   |        |
| STERILNT     | NONE   | FORMALIN | MEAN   |        |
| CROP(78)     |        |          |        |        |
|              | WHEAT  | 3.89     | 3.95   |        |
|              | BARLEY | 4.06     | 4.02   |        |
|              | OATS   | 3.82     | 3.94   |        |
| MEAN         | 4.02   | 3.92     | 3.97   |        |
| SOW DATE(76) | AUTUMN |          | SPRING |        |
| NEMACIDE(78) | NONE   | OXAMYL   | NONE   | OXAMYL |
| CROP(76)     |        |          |        |        |
|              | WHEAT  | 4.07     | 4.03   | 4.18   |
|              | BARLEY | 3.41     | 3.86   | 4.53   |
|              | OATS   | 4.19     | 3.76   | 4.30   |

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GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

|              |        |          |        |          |        |          |  |
|--------------|--------|----------|--------|----------|--------|----------|--|
| SOW DATE(76) | AUTUMN |          |        | SPRING   |        |          |  |
| CROP(78)     | WHEAT  | BARLEY   | OATS   | WHEAT    | BARLEY | OATS     |  |
| CROP(76)     |        |          |        |          |        |          |  |
| WHEAT        | 4.06   | 4.16     | 3.98   | 4.19     | 4.38   | 3.74     |  |
| BARLEY       | 2.94   | 3.48     | 4.28   | 4.20     | 4.26   | 4.12     |  |
| OATS         | 4.19   | 3.89     | 3.53   | 4.14     | 3.98   | 3.98     |  |
| NEMACIDE(78) | NONE   |          |        | OXAMYL   |        |          |  |
| CROP(78)     | WHEAT  | BARLEY   | OATS   | WHEAT    | BARLEY | OATS     |  |
| CROP(76)     |        |          |        |          |        |          |  |
| WHEAT        | 4.01   | 4.10     | 4.03   | 4.24     | 4.44   | 3.70     |  |
| BARLEY       | 3.26   | 3.65     | 3.99   | 3.88     | 4.09   | 4.41     |  |
| OATS         | 4.13   | 3.86     | 3.93   | 4.19     | 4.00   | 3.58     |  |
| NEMACIDE(78) | NONE   |          |        | OXAMYL   |        |          |  |
| CROP(78)     | WHEAT  | BARLEY   | OATS   | WHEAT    | BARLEY | OATS     |  |
| SOW DATE(76) |        |          |        |          |        |          |  |
| AUTUMN       | 3.68   | 3.90     | 4.09   | 3.78     | 3.78   | 3.78     |  |
| SPRING       | 3.92   | 3.84     | 3.88   | 4.43     | 4.57   | 4.02     |  |
| SOW DATE(76) | AUTUMN |          | SPRING |          |        |          |  |
| STERILNT     | NONE   | FORMALIN | NONE   | FORMALIN |        |          |  |
| CROP(76)     |        |          |        |          |        |          |  |
| WHEAT        | 4.17   | 3.97     | 4.24   | 3.97     |        |          |  |
| BARLEY       | 3.61   | 3.52     | 4.19   | 4.20     |        |          |  |
| OATS         | 3.69   | 4.05     | 4.24   | 3.83     |        |          |  |
| NEMACIDE(78) | NONE   |          | OXAMYL |          |        |          |  |
| STERILNT     | NONE   | FORMALIN | NONE   | FORMALIN |        |          |  |
| CROP(76)     |        |          |        |          |        |          |  |
| WHEAT        | 4.15   | 3.95     | 4.27   | 3.99     |        |          |  |
| BARLEY       | 3.64   | 3.63     | 4.15   | 4.10     |        |          |  |
| OATS         | 3.99   | 3.96     | 3.93   | 3.91     |        |          |  |
| NEMACIDE(78) | NONE   |          | OXAMYL |          |        |          |  |
| STERILNT     | NONE   | FORMALIN | NONE   | FORMALIN |        |          |  |
| SOW DATE(76) |        |          |        |          |        |          |  |
| AUTUMN       | 3.81   | 3.97     | 3.84   | 3.72     |        |          |  |
| SPRING       | 4.05   | 3.72     | 4.40   | 4.28     |        |          |  |
| CROP(78)     | WHEAT  |          | BARLEY |          | OATS   |          |  |
| STERILNT     | NONE   | FORMALIN | NONE   | FORMALIN | NONE   | FORMALIN |  |
| CROP(76)     |        |          |        |          |        |          |  |
| WHEAT        | 4.21   | 4.04     | 4.37   | 4.17     | 4.04   | 3.69     |  |
| BARLEY       | 3.73   | 3.42     | 3.71   | 4.03     | 4.25   | 4.14     |  |
| OATS         | 4.11   | 4.22     | 3.89   | 3.97     | 3.89   | 3.63     |  |
| CROP(78)     | WHEAT  |          | BARLEY |          | OATS   |          |  |
| STERILNT     | NONE   | FORMALIN | NONE   | FORMALIN | NONE   | FORMALIN |  |
| SOW DATE(76) |        |          |        |          |        |          |  |
| AUTUMN       | 3.81   | 3.65     | 3.69   | 3.99     | 3.96   | 3.90     |  |
| SPRING       | 4.22   | 4.13     | 4.29   | 4.12     | 4.16   | 3.74     |  |

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GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

| CROP(78)<br>STERILNT<br>NEMACIDE(78) | WHEAT |          | BARLEY |          | OATS |          |
|--------------------------------------|-------|----------|--------|----------|------|----------|
|                                      | NONE  | FORMALIN | NONE   | FORMALIN | NONE | FORMALIN |
| NONE                                 | 3.86  | 3.74     | 3.81   | 3.93     | 4.10 | 3.86     |
| OXAMYL                               | 4.17  | 4.04     | 4.17   | 4.18     | 4.01 | 3.78     |

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

| TABL E | CROP(76) | SOW DATE(76) | NEMACIDE(78) | CROP(78) |
|--------|----------|--------------|--------------|----------|
| SED    | 0.175    | 0.143        | 0.143        | 0.175    |

  

| TABLE | STERILNT | CROP(76)<br>SOW DATE(76) | CROP(76)<br>NEMACIDE(78) | SOW DATE(76)<br>NEMACIDE(78) |
|-------|----------|--------------------------|--------------------------|------------------------------|
| SED   | 0.087    | 0.248                    | 0.248                    | 0.202                        |

  

| TABLE  | CROP(76)<br>CROP(78) | SOW DATE(76)<br>CROP(78) | NEMACIDE(78)<br>CROP(78) | CROP(76)<br>STERILNT |
|--|----------------------|--------------------------|--------------------------|----------------------|
| SED  | 0.304                | 0.248                    | 0.248                    | 0.205                |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:<br>CROP(76) |                      |                          |                          | 0.151                |

  

| TABLE  | SOW DATE(76)<br>STERILNT | NEMACIDE(78)<br>STERILNT | CROP(78)<br>STERILNT | CROP(76)<br>SOW DATE(76)<br>NEMACIDE(78) |
|--|--------------------------|--------------------------|----------------------|--|
| SED  | 0.168                    | 0.168                    | 0.205                | 0.351                                    |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:<br>SOW DATE(76) |                          |                          |                      | 0.123                                    |
| NEMACIDE(78)   |                          | 0.123                    |                      |  |
| CROP(78)   |                          |                          | 0.151                |  |

  

| TABLE   | CROP(76)<br>SOW DATE(76)<br>CROP(78) | CROP(76)<br>NEMACIDE(78)<br>CROP(78) | SOW DATE(76)<br>NEMACIDE(78)<br>CROP(78) | CROP(76)<br>SOW DATE(76)<br>STERILNT |
|---|--------------------------------------|--------------------------------------|--|--------------------------------------|
| SED   | 0.429                                | 0.429                                | 0.351                                    | 0.290                                |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:<br>CROP(76).SOW DATE(76) |                                      |                                      |  | 0.214                                |

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\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

| TABLE  | CROP(76)<br>NEMACIDE(78)<br>STERILNT | SOW DATE(76)<br>NEMACIDE(78)<br>STERILNT | CROP(76)<br>CROP(78)<br>STERILNT | SOW DATE(76)<br>CROP(78)<br>STERILNT |
|--|--------------------------------------|--|----------------------------------|--------------------------------------|
| SED  | 0.290                                | 0.237                                    | 0.356                            | 0.290                                |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: |                                      |  |                                  |                                      |
| CROP(76).NEMACIDE(78)                              | 0.214                                |  |                                  |                                      |
| SOW DATE(76).NEMACIDE(78)                          |                                      | 0.175                                    |                                  |                                      |
| CROP(76).CROP(78)                                  |                                      |  | 0.262                            |                                      |
| SOW DATE(76).CROP(78)                              |                                      |  |                                  | 0.214                                |

| TABLE  | NEMACIDE(78)<br>CROP(78)<br>STERILNT |
|--|--------------------------------------|
| SED  | 0.290                                |
| EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: |                                      |
| NEMACIDE(78).CROP(78)                              | 0.214                                |

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

| STRATUM | DF | SE    | CV%  |
|---------|----|-------|------|
| WP      | 4  | 0.429 | 10.8 |
| WP.SP   | 16 | 0.370 | 9.3  |

GRAIN MEAN DM% 78.6

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\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

|               |        |          |      |      |
|---------------|--------|----------|------|------|
| SOW DATE (76) | AUTUMN | SPRING   | MEAN |      |
| CROP(76)      |        |          |      |      |
| WHEAT         | 2.60   | 2.68     | 2.64 |      |
| BARLEY        | 2.32   | 2.43     | 2.38 |      |
| OATS          | 2.45   | 2.63     | 2.54 |      |
| MEAN          | 2.46   | 2.58     | 2.52 |      |
| NEMACIDE (78) | NONE   | OXAMYL   | MEAN |      |
| CROP (76)     |        |          |      |      |
| WHEAT         | 2.63   | 2.66     | 2.64 |      |
| BARLEY        | 2.34   | 2.41     | 2.38 |      |
| OATS          | 2.48   | 2.60     | 2.54 |      |
| MEAN          | 2.48   | 2.55     | 2.52 |      |
| NEMACIDE (78) | NONE   | OXAMYL   | MEAN |      |
| SOW DATE (76) |        |          |      |      |
| AUTUMN        | 2.55   | 2.36     | 2.46 |      |
| SPRING        | 2.42   | 2.75     | 2.58 |      |
| MEAN          | 2.48   | 2.55     | 2.52 |      |
| CROP (78)     | WHEAT  | BARLEY   | OATS | MEAN |
| CROP(76)      |        |          |      |      |
| WHEAT         | 2.81   | 2.71     | 2.40 | 2.64 |
| BARLEY        | 2.20   | 2.28     | 2.64 | 2.38 |
| OATS          | 2.72   | 2.86     | 2.04 | 2.54 |
| MEAN          | 2.58   | 2.62     | 2.36 | 2.52 |
| CROP(78)      | WHEAT  | BARLEY   | OATS | MEAN |
| SOW DATE (76) |        |          |      |      |
| AUTUMN        | 2.60   | 2.31     | 2.46 | 2.46 |
| SPRING        | 2.56   | 2.92     | 2.26 | 2.58 |
| MEAN          | 2.58   | 2.62     | 2.36 | 2.52 |
| CROP (78)     | WHEAT  | BARLEY   | OATS | MEAN |
| NEMACIDE(78)  |        |          |      |      |
| NONE          | 2.50   | 2.54     | 2.41 | 2.48 |
| OXAMYL        | 2.66   | 2.70     | 2.31 | 2.55 |
| MEAN          | 2.58   | 2.62     | 2.36 | 2.52 |
| STERILNT      | NONE   | FORMALIN | MEAN |      |
| CROP(76)      |        |          |      |      |
| WHEAT         | 2.83   | 2.45     | 2.64 |      |
| BARLEY        | 2.36   | 2.39     | 2.38 |      |
| OATS          | 2.55   | 2.52     | 2.54 |      |
| MEAN          | 2.58   | 2.45     | 2.52 |      |



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STRAW TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

| STERILNT<br>SOW DATE(76) | NONE | FORMALIN | MEAN |
|--------------------------|------|----------|------|
| AUTUMN                   | 2.44 | 2.47     | 2.46 |
| SPRING                   | 2.73 | 2.43     | 2.58 |
| MEAN                     | 2.58 | 2.45     | 2.52 |

| STERILNT<br>NEMACIDE(78) | NONE | FORMALIN | MEAN |
|--------------------------|------|----------|------|
| NONE                     | 2.64 | 2.33     | 2.48 |
| OXAMYL                   | 2.53 | 2.58     | 2.55 |
| MEAN                     | 2.58 | 2.45     | 2.52 |

| STERILNT<br>CROP(78) | NONE | FORMALIN | MEAN |
|----------------------|------|----------|------|
| WHEAT                | 2.59 | 2.56     | 2.58 |
| BARLEY               | 2.67 | 2.57     | 2.62 |
| OATS                 | 2.49 | 2.23     | 2.36 |
| MEAN                 | 2.58 | 2.45     | 2.52 |

| SOW DATE(76)<br>NEMACIDE(78)<br>CROP(76) | AUTUMN<br>NONE | OXAMYL | SPRING<br>NONE | OXAMYL |
|--|----------------|--------|----------------|--------|
| WHEAT                                    | 2.59           | 2.61   | 2.66           | 2.71   |
| BARLEY                                   | 2.38           | 2.26   | 2.30           | 2.56   |
| OATS                                     | 2.67           | 2.23   | 2.28           | 2.97   |

| SOW DATE(76)<br>CROP(78)<br>CROP(76) | AUTUMN<br>WHEAT | BARLEY | OATS | SPRING<br>WHEAT | BARLEY | OATS |
|--------------------------------------|-----------------|--------|------|-----------------|--------|------|
| WHEAT                                | 3.09            | 2.47   | 2.23 | 2.53            | 2.96   | 2.56 |
| BARLEY                               | 1.92            | 1.96   | 3.07 | 2.49            | 2.59   | 2.22 |
| OATS                                 | 2.77            | 2.50   | 2.07 | 2.66            | 3.21   | 2.00 |

| NEMACIDE(78)<br>CROP(78)<br>CROP(76) | NONE<br>WHEAT | BARLEY | OATS | OXAMYL<br>WHEAT | BARLEY | OATS |
|--------------------------------------|---------------|--------|------|-----------------|--------|------|
| WHEAT                                | 2.90          | 2.61   | 2.36 | 2.72            | 2.81   | 2.43 |
| BARLEY                               | 2.05          | 2.23   | 2.75 | 2.36            | 2.33   | 2.54 |
| OATS                                 | 2.54          | 2.77   | 2.12 | 2.90            | 2.94   | 1.96 |

| NEMACIDE(78)<br>CROP(78)<br>SOW DATE(76) | NONE<br>WHEAT | BARLEY | OATS | OXAMYL<br>WHEAT | BARLEY | OATS |
|--|---------------|--------|------|-----------------|--------|------|
| AUTUMN                                   | 2.60          | 2.27   | 2.77 | 2.59            | 2.35   | 2.15 |
| SPRING                                   | 2.39          | 2.80   | 2.05 | 2.73            | 3.04   | 2.47 |

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STRAW TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

| SOW DATE (76)          | AUTUMN |          | SPRING |          |      |          |  |  |
|------------------------|--------|----------|--------|----------|------|----------|--|--|
|                        | NONE   | FORMALIN | NONE   | FORMALIN |      |          |  |  |
| STERILNT CROP (76)     |        |          |        |          |      |          |  |  |
| WHEAT                  | 2.68   | 2.52     | 2.98   | 2.38     |      |          |  |  |
| BARLEY                 | 2.33   | 2.31     | 2.40   | 2.47     |      |          |  |  |
| OATS                   | 2.30   | 2.60     | 2.80   | 2.45     |      |          |  |  |
| NEMACIDE (78)          | NONE   |          | OXAMYL |          |      |          |  |  |
| STERILNT CROP (76)     | NONE   | FORMALIN | NONE   | FORMALIN |      |          |  |  |
| WHEAT                  | 3.02   | 2.23     | 2.64   | 2.68     |      |          |  |  |
| BARLEY                 | 2.44   | 2.24     | 2.29   | 2.53     |      |          |  |  |
| OATS                   | 2.44   | 2.51     | 2.66   | 2.54     |      |          |  |  |
| NEMACIDE (78)          | NONE   |          | OXAMYL |          |      |          |  |  |
| STERILNT SOW DATE (76) | NONE   | FORMALIN | NONE   | FORMALIN |      |          |  |  |
| AUTUMN                 | 2.52   | 2.57     | 2.35   | 2.38     |      |          |  |  |
| SPRING                 | 2.75   | 2.08     | 2.70   | 2.79     |      |          |  |  |
| CROP (78)              | WHEAT  |          | BARLEY |          | OATS |          |  |  |
| STERILNT CROP (76)     | NONE   | FORMALIN | NONE   | FORMALIN | NONE | FORMALIN |  |  |
| WHEAT                  | 2.86   | 2.77     | 2.98   | 2.45     | 2.66 | 2.13     |  |  |
| BARLEY                 | 2.15   | 2.25     | 2.14   | 2.42     | 2.80 | 2.49     |  |  |
| OATS                   | 2.77   | 2.67     | 2.88   | 2.83     | 2.00 | 2.08     |  |  |
| CROP (78)              | WHEAT  |          | BARLEY |          | OATS |          |  |  |
| STERILNT SOW DATE (76) | NONE   | FORMALIN | NONE   | FORMALIN | NONE | FORMALIN |  |  |
| AUTUMN                 | 2.63   | 2.57     | 2.13   | 2.50     | 2.56 | 2.36     |  |  |
| SPRING                 | 2.56   | 2.56     | 3.21   | 2.63     | 2.42 | 2.11     |  |  |
| CROP (78)              | WHEAT  |          | BARLEY |          | OATS |          |  |  |
| STERILNT NEMACIDE (78) | NONE   | FORMALIN | NONE   | FORMALIN | NONE | FORMALIN |  |  |
| NONE                   | 2.71   | 2.28     | 2.54   | 2.54     | 2.66 | 2.16     |  |  |
| OXAMYL                 | 2.48   | 2.84     | 2.80   | 2.59     | 2.31 | 2.31     |  |  |

STRAW MEAN DM% 72.4

SUB PLOT AREA HARVESTED 0.00041