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Yields of the Field Experiments 2008

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R/CS/326 & W/CS/326 Amounts of Straw

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08/R/CS/326 and 08/W/CS/326

AMOUNTS OF STRAW

Object: To study the effects of different amounts of straw, incorporated into the soil, on w. wheat – Rothamsted (R) Great Knott III, Woburn (W) Far Field I

Sponsors: M. J. Glendining, P. C. Brookes

The 22nd year, w. wheat

For previous years see Yield Books for 87-07/R & W/CS/326

Design: 4 randomised blocks of 4 plots (R)
3 randomised blocks of 4 plots (W)

Whole plot dimensions: 3.0 x 13.5 (R). 0.004 ha
3.0 x 14.5 (W).

Treatments:

STRAW Amounts of straw incorporated into the seedbed (t/ha), cumulative to previous annual dressings:

		R	W
NONE	None	-	-
NORMAL	Normal	2.64	2.76
2 NORMAL	Twice normal	5.27	5.52
4 NORMAL	Four times normal	10.55	11.03

Experimental Diary

Great Knott III (R)

			Rate	Unit
3-Sep-07	a	Load straw normal	10.68	kg/plot
	a	Load straw 2 x normal	21.36	kg/plot
	a	Load straw 4 x normal	42.72	kg/plot
	a	Baled - plots		
29-Sep-07	a	Plough/W		
13-Oct-07	a	Combination Drilled		
	s	Hereward tr beret gold	350.00	seeds/m^2
14-Oct-07	a	Rolled		
15-Oct-07	p	Decoy Wetex	7.00	kg/ha
18-Oct-07	p	Liberator	0.60	l/200 l/ha
	p	Alpha Trifluralin 48 EC	2.00	l/200 l/ha
17-Nov-07	p	Stomp 400 SC	3.30	l/200 l/ha
	p	Arelon 500	2.00	l/200 l/ha
	p	Hallmark with Zeon Technology	50.00	ml/200 l/ha
18-Mar-08	f	Double Top	148.00	kg/ha
18-Apr-08	f	Nitraprill	460.00	kg/ha
5-May-08	p	Manganese Sulphate 32% Premium	5.00	kg/200 l/ha
	p	Activator 90	25.00	ml/200 l/ha

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			Rate	Unit
9-May-08	p	Deuce	1.00	l/150 l/ha
	p	Bravo 500	0.75	l/150 l/ha
	p	Flexity	0.20	l/150 l/ha
	p	BASF 3C Chlormequat 720	1.00	l/150 l/ha
19-May-08	p	Ally Max SX	42.00	g/200 l/ha
	p	Starane 2	0.75	l/200 l/ha
31-May-08	p	Amistar Opti	1.25	l/200 l/ha
	p	Opus Team	1.00	l/200 l/ha
17-Jun-08	a	Mow / Rotavate paths		
27-Aug-08	a	Combine harvest, plots for yield		
	a	Swath straw		
	a	Sample, bale and weigh straw		

Far Field I (W)

			Rate	Unit
7-Sep-07	a	Load straw, normal	12.00	kg/plot
	a	Load straw, 2 x normal	24.00	kg/plot
	a	Load straw, 4 x normal	48.00	kg/plot
1-Oct-07	p	Azural	2.00	l/200 l/ha
9-Oct-07	a	Plough/NW		
24-Oct-07	a	Power Harrowed		
26-Oct-07	a	Accord Drilled		
	s	Hereward tr beret gold	350.00	seeds/m^2
27-Oct-07	a	Rolled		
26-Nov-07	p	Avadex Excel 15G	15.00	kg/ha
13-Dec-07	p	Stomp 400 SC	3.30	l/200 l/ha
	p	Arelon 500	1.00	l/200 l/ha
	p	Hallmark with Zeon Technology	50.00	ml/200 l/ha
5-Mar-08	f	Double Top	133.00	kg/ha
2-May-08	p	Pacifica	0.50	kg/200 l/ha
	p	Biopower	1.00	l/200 l/ha
	p	Deuce	1.00	l/200 l/ha
	p	Bravo 500	1.00	l/200 l/ha
	p	Flexity	0.20	l/200 l/ha
10-May-08	f	Double Top	533.00	kg/ha
5-Jun-08	p	Amistar Opti	1.25	l/200 l/ha
	p	Opus	1.00	l/200 l/ha
	f	Manganese Sulphate	5.00	kg/200 l/ha
15-Sep-08	a	Combine harvest, plots for yield		
	a	Swath straw		
16-Sep-08	a	Sample, bale and weigh straw		

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08/R/CS/326

GRAIN TONNES/HECTARE

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

```
   Treatment
           -       9.91
           1       9.82
           2       9.91
           4       9.76

     Mean       9.85

***Standard errors of differences of means***

Table                Treatment
s.e.d.                   0.115


***Stratum standard errors and coefficients of variation***

Stratum                   d.f.          s.e.         cv%

Blocks.Plots                 9         0.162         1.6

GRAIN MEAN DM% 84.1
```

STRAW TONNES/HECTARE

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

```
   Treatment
           -         5.55
           1         5.68
           2         6.03
           4         5.95

     Mean         5.80

****Standard errors of differences of means****

Table              Treatment
s.e.d.                 0.267

****Stratum standard errors and coefficients of variation****

Straw (at 85% dry matter) tonnes/hectare

Stratum                         d.f.          s.e.         cv%

Blocks.Plots                       9         0.377         6.5

STRAW MEAN DM% 80.9

Plot area harvested   0.00284
```


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08/W/CS/326

GRAIN TONNES/HECTARE

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

```
    Treatment
            -      7.54
            1      7.41
            2      7.54
            4      7.64

     Mean      7.53

****Standard errors of differences of means****

Table               Treatment
s.e.                    0.300

****Stratum standard errors and coefficients of variation****

Stratum                       d.f.          s.e.         cv%

Blocks.Plots                     6         0.367         4.9


GRAIN MEAN DM% 82.7
```

STRAW TONNES/HECTARE

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

```
   Treatment
           -        4.05
           1        3.98
           2        4.39
           4        4.36

     Mean        4.19

****Standard errors of differences of means*****

Table              Treatment
s.e.                   0.237

STRAW MEAN DM% 89.9

PLOT AREA HARVESTED   0.00305
```


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