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Yields of the Field Experiments

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

Rothamsted Research

Rothamsted Research (2016) *R/CS/326 & W/CS/326 Amounts of Straw ;* Yields Of The Field Experiments , pp 50 - 51 **- DOI: https://doi.org/10.23637/ERADOC-1-249**

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16/R/CS/326 and 16/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: A Macdonald and M. J. Glendining,

The 30th year, w. wheat (no yields taken).

Notes: Both experiments will finish in autumn 2017. No yields were taken in 2016. Only farm diary details are shown below. For previous years see Yield Books for 87-15/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	4.70	3.39
2 NORMAL	Twice normal	9.40	6.78
4 NORMAL	Four times normal	18.80	13.56

Experimental Diary

Great Knott III (R)

Date		Application	Rate	Units
05/08/2015	a	Loaded Straw onto plots 4, 7, 11, 14	17.87	kg/ha
05/08/2015	a	Loaded Straw onto plots 2, 6, 10, 13	35.74	kg/ha
05/08/2015	a	Loaded Straw onto plots 3, 5, 9, 16	71.4	kg/ha
05/08/2015	a	Topped all plots with topper 9 to condition straw for ploughing	-	-
06/09/2015	p	Sprayed Samurai	1.00	lt/ha
06/09/2015	p	Sprayed Firebrand	2.00	lt/ha
15/09/2015	a	Ploughed; Thrown West		
28/09/2015	a	Cultipressed		
05/10/2015	s	Drilled Crusoe dr Redigo	350.00	seeds/m^2
05/10/2015	a	Ring Rolled		
09/10/2015	p	Sprayed Liberator	600.00	ml/ha
12/11/2015	p	Sprayed Hallmark	40.00	ml/ha
08/03/2016	f	Applied Double Top Fertilizer (27% N); Applied with Kuhn Aerospreader	148.00	kg/ha
01/04/2016	f	Applied Nitram (34.5% N)	260.00	kg/ha
05/04/2016	p	Sprayed 3C Chlormequat 750	1.25	lt/ha
05/04/2016	p	Sprayed Moddus	200.00	ml/ha
05/04/2016	p	SprayedSavannah	500.00	ml/ha
05/04/2016	p	Sprayed Mirage40ec	500.00	ml/ha

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05/04/2016	p	Sprayed Bravo 500	1.00	lt/ha
08/04/2016	p	Sprayed Moddus	150.00	ml/ha
08/04/2016	p	Sprayed 3C Chlormequat750,	1.25	lt/ha
08/04/2016	p	Sprayed Odin	500.00	ml/ha
08/04/2016	p	Sprayed Mirage 40ec	500.00	ml/ha
08/04/2016	p	Sprayed Bravo500	1.00	lt/ha
14/04/2016	f	Applied MOP; Applied to wheat only	250.00	kg/ha
14/04/2016	f	Applied TSP	298.00	kg/ha
25/04/2016	f	Applied Nitram (34.5% N)	260.00	kg/ha
04/05/2016	p	Sprayed Ally Max	20.00	g/ha
04/05/2016	p	Sprayed Keystone	800.00	ml/ha
04/05/2016	p	Sprayed Balear 720	700.00	ml/ha
25/05/2016	p	Sprayed Vortex	1.50	lt/ha
25/05/2016	p	Sprayed Spiggot	250.00	ml/ha
25/05/2016	p	Sprayed Hatchet Xtra	750.00	ml/ha
08/07/2016	p	Sprayed Cello	550.00	ml/ha
08/07/2016	p	Sprayed Hallmark	50.00	ml/ha

Far Field I (W)

Date		Application	Rate	Unit
05/10/2015	a	Topped straw		
07/10/2015	a	Ploughed; Thrown north west		
08/10/2015	a	Springtyne		
16/10/2015	s	Drilled Crusoe dr Redigo Deter	375.00	Seeds/m2
17/10/2015	a	Rolled		
31/10/2015	p	Sprayed Liberator (in 200 lt/ha water volume.)	0.60	lt/ha
03/11/2015	p	Sprayed Sprinter (in 200 lt/ha water volume.)	2.00	lt/ha
03/11/2015	p	Sprayed Hallmark (in 200 lt/ha water volume.)	40.00	ml/ha
26/02/2016	f	Applied Double Top Fertilizer	148.00	kg/ha
31/03/2016	p	Sprayed Chex (in 150 lt/ha water volume.)	0.25	lt/ha
31/03/2016	p	Sprayed Pacifica (in 150 lt/ha water volume.)	0.50	kg/ha
31/03/2016	p	Sprayed Bio Power (in 150 lt/ha water volume.)	1.00	lt/ha
04/04/2016	f	Applied Nitram (34.5% N) Fertiliser	203.00	kg/ha
05/04/2016	p	Sprayed Sprinter (in 150 lt/ha water volume.)	2.00	lt/ha
05/04/2016	p	Sprayed Toledo (in 150 lt/ha water volume.)	0.30	lt/ha
05/04/2016	p	Sprayed Bravo 500 (in 150 lt/ha water volume.)	1.00	lt/ha
05/04/2016	p	Sprayed Moddu (in 150 lt/ha water volume.)	0.10	lt/ha
05/04/2016	p	Sprayed Chlormequat (in 150 lt/ha water volume.)	1.25	lt/ha
29/04/2016	f	Applied Nitram (34.5% N) Fertiliser	203.00	kg/ha
04/05/2016	p	Sprayed Sprinter (in 150 lt/ha water volume.)	2.00	lt/ha
04/05/2016	p	Sprayed Keystone (in 150 lt/ha water volume.)	0.80	lt/ha
04/05/2016	p	Sprayed Balear 720 (in 150 lt/ha water volume.)	0.70	lt/ha
24/05/2016	p	Sprayed Sprinter (in 150 lt/ha water volume.)	2.00	lt/ha
24/05/2016	p	Sprayed Vortex (in 150 lt/ha water volume.)	1.50	lt/ha
09/06/2016	p	Sprayed Cello (in 150 lt/ha water volume.)	0.60	lt/ha
09/06/2016	p	Sprayed Cyflamid (in 150 lt/ha water volume.)	0.15	lt/ha
09/06/2016	p	Sprayed Hallmark (in 150 lt/ha water volume.)	50.00	ml/ha
13/08/2016	a	Combined		
18/08/2016	a	Baled Straw		

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