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Results of the Classical and Other Long-term Experiments - 2017

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17/R/CS/326 and 17/W/CS/326 Amounts of Straw

Rothamsted Research

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17/R/CS/326 and 17/W/CS/326 AMOUNTS OF STRAW (Gt. Knott III (R) and Far field I (W))

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

Sponsors: A Macdonald and M. J. Glendining,

The 31st year, winter wheat (no yields taken).

Notes: Both experiments will finish in autumn 2017. No yields to be taken in 2016 or 2017. Only farm diary details are shown below. For previous years see Yield Books for 87-17/R & W/CS/326.

Design: 4 randomised blocks of 4 plots (R)

3 randomised blocks of 4 plots (W)

Whole plot dimensions:

3.0 m x 13.5 m (R) = 0.0040 ha

3.0 m x 14.5 m (W) = 0.0043 ha

Treatments:

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
21/09/2016	a	Loaded Straw onto Plots 4, 7, 11, 14	4.70	t/ha
21/09/2016	a	Loaded Straw onto Plots 2, 6, 10, 13	9.40	t/ha
21/09/2016	a	Loaded Straw onto Plots 3, 5, 9, 16	18.80	t/ha
21/09/2016	a	Topped Straw before Ploughing	-	-
22/09/2016	a	Sub-Soiled Tramlines	-	-
23/09/2016	a	Ploughed - thrown East	-	-
07/10/2016	a	Ring Rolled - all new drilling	-	-
13/10/2016	p	Sprayed Liberator	600.00	ml/ha

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13/10/2016	p	Sprayed Jade	3.00	lt/ha
13/10/2016	p	Sprayed Deploy	400.00	ml/ha
08/11/2016	p	Applied Major Slug Pellets	5.00	kg/ha
30/11/2016	p	Sprayed Hallmark	50.00	ml/ha
09/03/2017	f	Applied Doubletop	148.00	kg/ha
27/03/2017	p	Sprayed Chex - winter wheat only	250.00	ml/ha
27/03/2017	p	Sprayed Pacifica - winter wheat only	500.00	0g/ha
27/03/2017	p	Sprayed Bio Power - winter wheat only	1.00	lt/ha
04/04/2017	f	Applied Nitram (34.5% N) - winter wheat only	260.00	kg/ha
05/04/2017	p	Sprayed Artemis	1.00	lt/ha
05/04/2017	p	Sprayed Claw 500	1.00	lt/ha
05/04/2017	p	Sprayed3C Chlormequat 750	2.00	lt/ha
23/04/2017	p	Sprayed Keystone	600.00	ml/ha
23/04/2017	p	Sprayed Epic	400.00	ml/ha
23/04/2017	p	Sprayed Balear 720	700.00	ml/ha
04/05/2017	f	Applied Nitram to WW	260.00	kg/ha
13/06/2017	p	Sprayed Fezan (Tebuconazole)	750.00	ml/ha
15/08/2017	a	Harvested as a commercial crop	-	-

Far Field I (W)

Date		Application	Rate	Unit
02/09/2016	a	Straw loaded to plots 18, 24, 26	3.40	t/ha
02/09/2016	a	Straw loaded to plots 17, 22, 25	6.80	t/ha
02/09/2016	a	Straw loaded to plots 20, 23, 27	13.60	t/ha
02/09/2016	a	Topped straw to help ploughing	-	-
05/09/2016	a	Ploughed - thrown north west	-	-
26/09/2016	a	Power harrowed	-	-
04/10/2016	s	Drilled Crusoe tr Redigo Pro + Deter	375.00	seeds/m^2
04/10/2016	a	Rolled	-	-
25/10/2016	p	Sprayed Hallmark in 200 lt/ha water volume.	50.00	ml/ha

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25/10/2016	p	Sprayed Movon in 200 lt/ha water volume.	1.00	lt/ha
08/03/2017	f	Applied Double Top Fertilizer	148.00	kg/ha
27/03/2017	a	Sprayed Chex	0.25	lt/ha
27/03/2017	a	Sprayed Pacifica	0.50	kg/ha
27/03/2017	a	Sprayed Cogent	2.00	lt/ha
07/04/2017	a	Sprayed Sprinter in 150 lt/ha water volume	2.00	lt/ha
07/04/2017	a	Sprayed Artemis in 150 lt/ha water volume	1.00	lt/ha
07/04/2017	a	Sprayed Claw 500 in 150 lt/ha water volume	1.00	lt/ha
07/04/2017	a	Sprayed Moddus in 150 lt/ha water volume	0.10	lt/ha
07/04/2017	a	Sprayed Chlormequat in 150 lt/ha water volume	1.00	lt/ha
10/04/2017	f	Applied Nitram (34.5% N) Fertiliser	203.00	kg/ha
25/04/2017	f	Applied Nitram (34.5% N) Fertiliser	203.00	kg/ha
28/04/2017	p	Sprayed Sprinter in 150 lt/ha water volume	2.00	lt/ha
28/04/2017	p	Sprayed Keystone in 150 lt/ha water volume	0.80	lt/ha
28/04/2017	p	Sprayed Balear 720 in 150 lt/ha water volume	0.70	lt/ha
24/05/2017	p	Sprayed Sprinter in 150 lt/ha water volume	2.00	t/ha
24/05/2017	p	Sprayed Vortex in 150 lt/ha water volume	1.50	lt/ha
13/08/2017	a	Harvested as a commercial crop	-	-

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