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Yields of the Field Experiments 1985

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85/R/CS/311 Effects of Shallow Straw Incorporation - W. Wheat

Rothamsted Research

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85/R/CS/311

Basal applications: Manures: 'Nitro-Chalk' (27.5% N) at 140 kg followed by 730 kg. Weedkillers: Paraquat at 0.60 kg ion in 500 l. Isoproturon at 2.0 kg, with mecoprop at 1.6 kg, bromoxynil at 0.20 kg and ioxynil at 0.20 kg in 200 l.

Seed: Avalon, sown at 220 kg.

Cultivations, etc.:- Paraquat applied: 28 Aug, 1984. Rotary harrowed: 11 Oct. Seed sown: 12 Oct. Spring-tine cultivated: 13 Oct. First N applied: 28 Feb, 1985. Remaining weedkillers applied: 10 Apr. Second N applied: 12 Apr. Combine harvested: 30 Aug. Previous crops: Potatoes 1983, w. wheat 1984.

NOTE: Growth was measured and incidence of pests and diseases assessed at intervals during the season. Components of yield were measured.

GRAIN TONNES/HECTARE

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

CULTTIME	EARLY	LATER	MEAN
STRAW			
BURNT	7.95	8.61	8.28
BALED	8.13	8.33	8.23
CHOPPED	8.47	8.25	8.36
MEAN	8.18	8.39	8.29
AUT N	0	50	MEAN
STRAW			
BURNT	8.19	8.37	8.28
BALED	8.11	8.34	8.23
CHOPPED	8.18	8.54	8.36
MEAN	8.16	8.42	8.29
AUT N	0	50	MEAN
CULTTIME			
EARLY	8.10	8.26	8.18
LATER	8.22	8.57	8.39
MEAN	8.16	8.42	8.29
FUNGCIDE	0	FULL	MEAN
STRAW			
BURNT	7.50	9.06	8.28
BALED	7.40	9.05	8.23
CHOPPED	7.66	9.06	8.36
MEAN	7.52	9.06	8.29
FUNGCIDE	0	FULL	MEAN
CULTTIME			
EARLY	7.44	8.93	8.18
LATER	7.60	9.19	8.39
MEAN	7.52	9.06	8.29

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GRAIN TONNES/HECTARE

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

FUNGCIDE	0	FULL	MEAN	
AUT N				
0	7.46	8.86	8.16	
50	7.58	9.25	8.42	
MEAN	7.52	9.06	8.29	
INSCTCDE	0	PIRIMICA	MEAN	
STRAW				
BURNT	8.11	8.45	8.28	
BALED	8.14	8.31	8.23	
CHOPPED	8.19	8.53	8.36	
MEAN	8.15	8.43	8.29	
INSCTCDE	0	PIRIMICA	MEAN	
CULTTIME				
EARLY	7.94	8.42	8.18	
LATER	8.35	8.43	8.39	
MEAN	8.15	8.43	8.29	
INSCTCDE	0	PIRIMICA	MEAN	
AUT N				
0	7.97	8.35	8.16	
50	8.33	8.50	8.42	
MEAN	8.15	8.43	8.29	
INSCTCDE	0	PIRIMICA	MEAN	
FUNGCIDE				
0	7.47	7.57	7.52	
FULL	8.83	9.29	9.06	
MEAN	8.15	8.43	8.29	
CULTTIME	EARLY		LATER	
AUT N	0	50	0	50
STRAW				
BURNT	7.90	8.01	8.48	8.73
BALED	8.04	8.21	8.19	8.46
CHOPPED	8.37	8.56	7.98	8.51
CULTTIME	EARLY		LATER	
FUNGCIDE	0	FULL	0	FULL
STRAW				
BURNT	7.29	8.62	7.72	9.50
BALED	7.25	9.00	7.55	9.11
CHOPPED	7.78	9.16	7.54	8.96

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GRAIN TONNES/HECTARE

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

AUT N	0		50	
FUNGCIDE	0	FULL	0	FULL
STRAW				
BURNT	7.38	9.00	7.63	9.12
BALED	7.50	8.73	7.30	9.37
CHOPPED	7.51	8.85	7.81	9.27
AUT N	0		50	
FUNGCIDE	0	FULL	0	FULL
CULTTIME				
EARLY	7.44	8.77	7.44	9.08
LATER	7.49	8.95	7.71	9.43
CULTTIME	EARLY		LATER	
INSCTCDE	0 PIRIMICA		0 PIRIMICA	
STRAW				
BURNT	7.71	8.20	8.51	8.70
BALED	7.86	8.39	8.42	8.23
CHOPPED	8.25	8.69	8.13	8.37
AUT N	0		50	
INSCTCDE	0 PIRIMICA		0 PIRIMICA	
STRAW				
BURNT	8.00	8.37	8.22	8.53
BALED	7.91	8.32	8.37	8.30
CHOPPED	7.99	8.37	8.39	8.68
AUT N	0		50	
INSCTCDE	0 PIRIMICA		0 PIRIMICA	
CULTTIME				
EARLY	7.81	8.40	8.07	8.45
LATER	8.12	8.31	8.58	8.56
FUNGCIDE	0		FULL	
INSCTCDE	0 PIRIMICA		0 PIRIMICA	
STRAW				
BURNT	7.49	7.51	8.73	9.39
BALED	7.38	7.41	8.90	9.20
CHOPPED	7.53	7.79	8.85	9.26
FUNGCIDE	0		FULL	
INSCTCDE	0 PIRIMICA		0 PIRIMICA	
CULTTIME				
EARLY	7.41	7.47	8.47	9.38
LATER	7.52	7.68	9.18	9.19
FUNGCIDE	0		FULL	
INSCTCDE	0 PIRIMICA		0 PIRIMICA	
AUT N				
0	7.39	7.54	8.55	9.17
50	7.55	7.61	9.11	9.40

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GRAIN TONNES/HECTARE

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

TABLE	AUT N	FUNGCIDE	INSCDCDE	STRAW* AUT N
SED	0.112	0.112	0.112	0.194
TABLE	CULTTIME* AUT N	STRAW* FUNGCIDE	CULTTIME* FUNGCIDE	AUT N FUNGCIDE
SED	0.159	0.194	0.159	0.159
TABLE	STRAW* INSCDCDE	CULTTIME* INSCDCDE	AUT N INSCDCDE	FUNGCIDE INSCDCDE
SED	0.194	0.159	0.159	0.159
TABLE	STRAW* CULTTIME AUT N	STRAW* CULTTIME FUNGCIDE	STRAW* AUT N FUNGCIDE	CULTTIME* AUT N FUNGCIDE
SED	0.275	0.275	0.275	0.224
TABLE	STRAW* CULTTIME INSCDCDE	STRAW* AUT N INSCDCDE	CULTTIME* AUT N INSCDCDE	STRAW* FUNGCIDE INSCDCDE
SED	0.275	0.275	0.224	0.275
TABLE	CULTTIME* FUNGCIDE INSCDCDE	AUT N FUNGCIDE INSCDCDE		
SED	0.224	0.224		

* WITHIN THE SAME LEVEL OF STRAW, CULTTIME OR STRAW.CULTTIME ONLY

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

STRATUM	DF	SE	CV%
WP.SP	11	0.388	4.7

GRAIN MEAN DM% 86.0

SUB PLOT AREA HARVESTED 0.00280