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Numerical Results of the Field Experiments 1970

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70/R/BN/7 Barnfield - Beans, Spring Wheat, Barley

Rothamsted Research

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BARNFIELD

(70/R/BN/7)

Third year of new scheme, 1970. Beans, spring wheat and barley.

For history, treatments, etc. see 'Details' 1967 and 'Results' 68/A/5 and 69/R/BN/7.

Varieties in 1970: Spring wheat: Kolibri, barley: Julia, spring beans: Maris Bead.

Continuous spring beans: The half plots on Section 1 which have now received simazine in each of the 3 years 1967 - 69 were divided into 2 for a test of continued simazine application v residual effects of previous application.

Plot areas:

Wheat and barley (quarter plot): 0.0362 (Strip 1: 0.0238).

Area harvested: 0.0193.

Beans, Section 1 (half plot): 0.0723. (Strips 1 and 8: 0.0475).

Area harvested: 0.0217.

Section 2 (half plot): 0.0241.

(Strips 1 and 8: 0.0158). Area harvested: 0.0217.

Standard applications: Spring beans: Weedkiller: Paraquat at 0.5 lb ion in 20 gals to strips 1 and 2 only. Insecticide: Demeton-s-methyl at 3.5 oz in 40 gals.

Cultivations, etc.: FYM applied: 10 Nov, 1969. P,K,Na and Mg applied: 10 - 27 Nov. All plots ploughed: 28 Nov.

Spring beans: Paraquat applied: 8 Oct, 1969. Seed drilled at

200 lb: 20 Apr, 1970. Simazine applied to half plots at

1 lb in 20 gals: 24 Apr. Insecticide applied: 17 June.

Combine harvested: 4 Sept.

Spring wheat: Seed drilled at 170 lb: 20 Apr, 1970. N applied:

24 Apr. Combine harvested: 29 Aug.

Barley: Seed drilled at 140 lb: 20 Apr, 1970. N applied:

24 Apr. Combine harvested: 25 Aug.

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SUMMARY OF RESULTS

SPRING WHEAT

GRAIN: CWT

Strip	N	N	A	AC	C
1	0	10.4	-	-	23.0
	1	-	21.4	30.4	-
	2	15.6	-	-	26.3
	3	-	25.0	22.8	-
2	0	-	20.0	18.1	-
	1	20.3	-	-	24.7
	2	-	21.3	27.8	-
	3	10.6	-	-	28.2
4	0	11.0	-	-	12.4
	1	-	19.8	24.2	-
	2	16.7	-	-	25.7
	3	-	29.4	31.4	-
5	0	8.6	-	-	12.2
	1	-	22.9	26.8	-
	2	16.4	-	-	21.2
	3	-	25.7	32.2	-
6	0	-	10.1	12.6	-
	1	18.3	-	-	22.2
	2	-	25.1	31.4	-
	3	17.9	-	-	31.8
7	0	-	10.5	14.3	-
	1	17.7	-	-	24.8
	2	-	26.8	29.6	-
	3	11.9	-	-	23.8
8	0	-	22.5	12.4	-
	1	17.3	-	-	20.0
	2	-	23.6	13.7	-
	3	12.3	-	-	25.5
9	0		15.0		
	1		18.8		
	2		20.7		
	3		22.4		

Mean D.M. %: 83.0

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SPRING WHEAT

STRAW: CWT

Strip	N	N	A	AC	C
1	0	19.0	-	-	20.9
	1	-	28.8	26.7	-
	2	26.6	-	-	29.3
	3	-	26.6	28.3	-
2	0	-	15.3	17.3	-
	1	22.6	-	-	24.0
	2	-	28.0	22.1	-
	3	28.3	-	-	32.0
4	0	8.9	-	-	8.8
	1	-	14.6	16.8	-
	2	19.5	-	-	21.6
	3	-	22.6	22.1	-
5	0	7.8	-	-	8.4
	1	-	14.2	16.7	-
	2	17.2	-	-	15.8
	3	-	16.6	19.0	-
6	0	-	7.7	9.2	-
	1	16.1	-	-	17.3
	2	-	21.9	23.6	-
	3	17.8	-	-	27.1
7	0	-	6.1	9.8	-
	1	12.6	-	-	17.8
	2	-	16.7	19.1	-
	3	12.1	-	-	17.5
8	0	-	6.7	8.2	-
	1	11.3	-	-	12.2
	2	-	13.0	14.9	-
	3	13.9	-	-	13.7
9	0		7.7		
	1		13.4		
	2		16.6		
	3		18.3		

Mean D.M. %: 71.2

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BARLEY

GRAIN: CWT

Strip	N	N	A	AC	C
1	0	-	32.6	29.7	-
	1	36.6	-	-	40.6
	2	-	42.3	44.5	-
	3	40.7	-	-	44.6
2	0	33.7	-	-	26.8
	1	-	38.8	39.5	-
	2	38.6	-	-	44.0
	3	-	43.1	44.2	-
4	0	-	8.9	9.1	-
	1	22.6	-	-	22.3
	2	-	28.9	30.4	-
	3	32.1	-	-	37.3
5	0	-	8.7	10.1	-
	1	22.4	-	-	27.1
	2	-	31.5	37.2	-
	3	28.7	-	-	39.8
6	0	7.6	-	-	11.4
	1	-	23.7	27.4	-
	2	26.9	-	-	33.3
	3	-	35.5	39.7	-
7	0	7.4	-	-	11.6
	1	-	22.9	26.4	-
	2	23.1	-	-	32.5
	3	-	36.9	39.0	-
8	0	6.5	-	-	15.4
	1	-	21.2	28.4	-
	2	25.0	-	-	33.1
	3	-	30.0	33.9	-

Mean D.M. %: 82.7

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BARLEY

STRAW: CWT

Strip	N	N	A	AC	C
1	0	-	18.0	17.7	-
	1	19.1	-	-	22.3
	2	-	23.3	25.1	-
	3	25.6	-	-	24.4
2	0	18.6	-	-	15.5
	1	-	23.7	22.4	-
	2	22.4	-	-	23.1
	3	-	25.3	21.8	-
4	0	-	3.2	3.4	-
	1	11.9	-	-	12.1
	2	-	13.0	17.2	-
	3	18.2	-	-	20.0
5	0	-	2.7	4.4	-
	1	11.3	-	-	13.6
	2	-	14.3	18.5	-
	3	15.4	-	-	18.6
6	0	2.5	-	-	5.0
	1	-	12.2	14.6	-
	2	15.1	-	-	18.3
	3	-	17.9	21.8	-
7	0	3.2	-	-	4.8
	1	-	11.3	12.9	-
	2	11.7	-	-	16.7
	3	-	18.4	18.3	-
8	0	1.7	-	-	6.9
	1	-	10.3	12.8	-
	2	11.1	-	-	16.9
	3	-	14.2	13.8	-

Mean D.M. %: 78.0

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BEANS

SIMAZINE

Strip	1967*	1967-69	1967-70	Mean
GRAIN: CWT				
1	16.4	12.6	12.6	14.5
2	13.0	16.6	13.3	14.0
4	8.2	7.5	6.4	7.6
5	11.6	9.0	7.2	9.8
6	7.2	8.4	6.4	7.3
7	8.6	5.3	4.3	6.7
8	6.5	1.6	1.7	4.1
Mean	10.2	8.7	7.4	9.1
STRAW: CWT				
1	7.3	6.6	8.2	7.4
2	12.7	10.7	5.8	10.5
4	3.4	3.1	2.5	3.1
5	3.4	2.6	1.8	2.8
6	3.0	3.5	2.7	3.1
7	3.4	2.2	1.8	2.7
8	2.6	1.1	0.6	1.7
Mean	5.1	4.2	3.4	4.4

Mean D.M. %: Grain: 79.2
Straw: 66.5

* Duplicated treatment