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67/W/WIC/B/9 Intensive Cereals

Rothamsted Research

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67/B/9.1

INTENSIVE CEREALS

(WIC)

Woburn Stackyard Classical Site 1967 - the second year

For treatments and previous years' results, see 'Results' 66/B/9.

Crop sequence symbols

	Year									
	66	67	68	69	70	71	72	73	74	75
C1	L	P	W	W	W	L	P	W	W	W
C2	P	W	W	W	L	P	W	W	W	L
C3	W	W	W	L	P	W	W	W	L	P
C4	W	W	L	P	W	W	W	L	P	W
C5	W	L	P	W	W	W	L	P	W	W
C6	W	W	W	W	W	W	W	W	W	W

Area of each sub plot: 0.0103. Area harvested: Ley - 0.0022, wheat and barley - 0.0066, potatoes - 0.0069.

Basal applications:

All crops: 1.0 cwt P205, 2.0 cwt K20, half ploughed in, half worked into the seedbed.

Potatoes: 1.2 cwt N as 'Nitro-Chalk'.

Ley: 0.4 cwt N as 'Nitro-Chalk'.

Cultivations, etc.:

All plots: Half basal PK applied, ploughed: Sept 14, 1966.

Ley: Remaining basal PK applied, seed sown at 29 lb: Sept 16.

'Nitro-Chalk' applied: Mar 17, 1967. Cut three times for hay: June 1, July 13, Sept 12.

Potatoes: Remaining basal PK, and 'Nitro-Chalk' applied: Mar 17, 1967.

Potatoes planted: Mar 22. Earthed up: June 10. Sprayed with mancozeb at 1.2 lb in 30 gals: July 1, July 26, Aug 8. Sprayed with fentin acetate at 4.2 oz plus maneb at 1.4 oz in 30 gals: Aug 21. Sprayed with undiluted BOV at 15 gals: Sept 6. Lifted: Sept 12. Variety: Majestic.

Wheat: Remaining PK applied: Oct 21. Seed drilled at 210 lb:

Oct 26. 'Nitro-Chalk' applied: Apr 14, 1967. Sprayed with ioxynil/mecoprop (Acril C at 6 pints in 25 gals): Apr 27. Combine harvested: Aug 22. Variety: Cappelle.

Barley: Remaining PK applied, and seed drilled at 140 lb: Mar 4, 1967.

'Nitro-Chalk' applied: Mar 17. Sprayed with ioxynil/mecoprop (Acril C at 6 pints in 25 gals): Apr 27. Combine harvested: Aug 18. Variety: Maris Badger.

67/B/9.2

- NOTES: (1) Estimates of eyespot (*Cercospora herpotrichoides*) and take-all (*Ophiobolus graminis*) were made in May and June on barley and in April and July on wheat.
- (2) Leaf samples of potato and wheat were taken in June for mineral analysis. N P and K levels were normal while Mn levels were high and Ca and Mg were low.

Standard errors per plot. Grain:

Wheat sub plot: 6.76 or 18.6% (12 d.f.)

Barley sub plot: 2.57 or 6.5% (12 d.f.)

67/B/9.3

SUMMARY OF RESULTS

LEY (C5)

PERMANENT WHEAT BLOCK

N1	N2	N3	N4	Mean
		1ST CUT		
37.3	40.5	47.0	46.5	42.8
		2ND CUT		
5.7	6.4	7.5	10.7	7.5
		3RD CUT		
12.7	10.8	12.4	10.3	11.5
		TOTAL OF 3 CUTS		
55.7	57.7	66.8	67.5	61.9

Mean D.M. %: 1st cut: 22.5
 2nd cut: 28.7
 3rd cut: 25.3
 Total of 3 cuts: 25.5

67/B/9.4

LEY
PERMANENT BARLEY BLOCK

N1	N2	N3	N4	Mean
		1ST CUT		
49.6	51.8	59.3	54.7	53.9
		2ND CUT		
8.7	8.3	10.6	10.1	9.4
		3RD CUT		
11.8	10.3	10.0	10.6	10.7
		TOTAL OF 3 CUTS		
70.1	70.5	80.0	75.3	74.0

Mean D.M. %: 1st cut: 22.8
 2nd cut: 28.6
 3rd cut: 25.2
 Total of 3 cuts: 25.6

67/B/9.5

POTATOES

	Permanent wheat block	Permanent barley block
Total tubers	5.16	10.60
% ware	89.1	92.3

WHEAT (C2, C3, C4, C6)

	N1	N2	N3	N4	Mean
	(± 4.78)*				(12.1)
C2	39.0	50.5	48.3	53.2	47.7
C3	26.7	33.4	45.6	36.3	35.5
C4	23.4	33.7	28.3	39.2	31.1
C6	24.2	28.5	38.6	32.7	31.0
Mean (± 2.39)	28.3	36.5	40.2	40.4	36.3

Mean D.M. %: 84.5

BARLEY (C2, C3, C4, C6)

	N1	N2	N3	N4	Mean
	(± 1.81)*				(12.1)
C2	32.8	44.4	45.8	39.7	40.7
C3	31.9	42.9	41.2	39.0	38.8
C4	30.8	44.6	43.3	40.6	39.8
C6	30.2	39.1	41.9	41.4	38.1
Mean (± 0.91)	31.4	42.7	43.0	40.2	39.3

Mean D.M. %: 84.4

* For use in horizontal and interaction comparisons