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## Yields of the Field Experiments 1978

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### 78/R/AG/6 Agdell - Ryegrass, Ryegrass/CLOVER

#### Rothamsted Research

Rothamsted Research (1979) 78/R/AG/6 Agdell - Ryegrass, Ryegrass/CLOVER ; Yields Of The Field Experiments 1978, pp 29 - 30 - DOI: <https://doi.org/10.23637/ERADOC-1-30>

78/R/AG/6

AGDELL

Object: To study, by crop yields and soil analyses, the residual values of phosphate and potash applied in the period 1848-1951 and further dressings since 1964.

The ninth year of revised scheme, ryegrass and ryegrass/clover.

For previous years see 'Details' 1967 and 1973, and 74-77/R/AG/6.

Treatments: All combinations of:-

Whole plots

1. OLDRES D Fertilisers and organic manures applied to roots every fourth year, in the period 1848-1948:

NONE	None
PKNAMG	P K Na Mg
NPKNAMGC	N P K Na Mg C

N: 48 kg N as sulphate of ammonia  
P: 41 kg P as superphosphate  
K: 224 kg K as sulphate of potash  
Na: 16 kg Na as sulphate of soda  
Mg: 11 kg Mg as sulphate of magnesia  
C: Castor meal at 2240 kg supplying about 112 kg N

NOTE: Yields taken only from OLDRES D NONE.

2. RN CROP (77) Rotation 1848-1951 and crop since 1977:

(F) G/C	With fallow: Roots (turnips or swedes), barley, fallow, wheat 1848-1951. Grass/clover 1977 & 1978
(L) G	With legume: Roots, barley, legume (clover or beans), wheat 1848-1951. Grass 1977 & 1978

Half plots

3. 1964RES D Residues of 1964 treatments:

P  
K

Quarter plots

4. PREVCROP Previous cropping 1958-69 on P-test half plots, 1958-70 on K-test half plots:

ARABLE	Arable or fallow
GRASS	Grass

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Sixteenth plots

5. P205 64	K20 64	Rates of 1964 treatments (kg):	
		P205 to P-test half plots	K20 to K-test half plots
		0	0
		500	315
		1000	630
		2000	1260

Sixty fourth plots

6.	On P-test half plots:	
P205 70(2)	Residues of P205 applied 1970-72 (total, kg):	
	0	
	375	
	On K-test half plots:	
K20 73(6)	Residues of K20 applied 1973-76 (total, kg):	
	0	
	870	

NOTE: Strips of sixty fourth plots on P-test half plots tested 63 and 94 kg N in 1976. Yields in 1978 were taken only from strips given 94 kg N. Strips of sixty fourth plots on K-test half plots were cropped with potatoes and barley in 1976. Yields in 1978 were taken only from strips cropped with potatoes.

Sub plot dimensions: Plots 1, 2, 3 and 4 - 6.04 x 3.02. Plots 5, 6 - 5.43 x 3.02.

Standard applications: Grass only plots: Manures: N at 100 kg as 'Nitro-Chalk 25' in spring, as 'Nitra-Shell 34' after each cut except the last.  
Grass and clover plots: Manures: N at 50 kg as 'Nitra-Shell 34'.

Seed: Grass plots: S.23, sown at 22 kg. Grass/clover plots: S.23 at 22 kg, Blanca at 2 kg, mixture sown at 24 kg.

Cultivations, etc.: - First N applied to grass: 6 Mar, 1978. N applied to grass-clover: 18 May. Cut three times: 6 June, 26 July, 1 Nov. N applied to grass: 9 June, 3 Aug.