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Details of the Classical and Long-term Experiments 1968-73



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Rothamsted Research

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RESIDUAL PHOSPHATE ROTHAMSTED, GREAT FIELD IV AND SAWYERS I

(R/RN/7)

The crop rotation and phosphate manuring programmes for the second period 1967-72 (*Details 1967*, p.89) have been followed. In 1973 the rotation was continued for one more year before changes in 1974, and the treatments were slightly altered on metrication in 1973.

NOTE: The potash applied as a basal manure is the sulphate, not the muriate as stated on p. 90 (Details 1967).

Treatments (all as granular superphosphate kg P₂ 0₅/ha)

Symbol	Frequency	Total 1967-72	1973
0	None	_	0
A1	Annual	188*	29*
A2	Annual	377*	57*
A3	Annual	753*	115*
A4	Annual	1130*	172*
T1	1969, 1972	188*	_
T2	1969, 1972	377*	_
R2	1967	377°	344+
R3	1967	753°	688+
R4	1967	1130°	1032+
G1	None since		
S1	1960		

For details of manuring during the first period 1960-65 and the fallow of 1966 see *Details* 1967, pp 88-89.

Basal dressings (kg/ha)

Broadcast in spring before sowing or planting as 'Nitro-Chalk' and sulphate of potash; except for barley since 1970 as (25-0-16) combine drilled.

		N	K_20
Barley:	1968-69	50 Great Field	126
		100 Sawyers	126
	1970-	100	63
Potatoes:	1968-69	150	188
	1970-	251	251
Swedes:	1968-73	63	126

Liming

Ground chalk applied before ploughing in autumn to land to be cropped with barley t/ha

1968	None
1969	2.9

^{*} applied in seedbed

⁺ half applied in autumn before ploughing and half in spring before cultivation o half applied in June and half in September 1966 and worked into fallow

1970-71	3.1
1972	2.9
1973	None

Varieties

Barley: 1968-69 Maris Badger

1970-73 Julia (dressed with ethirimol 1972

and 1973.)

Potatoes: Majestic, chitted seed:

1968 Irish A 1969-71 Once grown 1972 Scotch

1973 Foundation Stock

Swedes: 1968-73 Wilhelms dressed with Gamma-BHC

with captan (1970 Green Globe turnips were sown in place of

swedes which failed)

Weedkillers

Barley: 1969-70 2,4-D with dichloroprop

1971-72 Ioxynil, bromoxynil with

dichloroprop

1973 Dicamba, mecoprop with MCPA

Potatoes: 1968 Paraquat with linuron

Swedes: 1972 Paraquat to previous barley

stubble

Other chemicals applied

Potatoes: 1968 Mancozeb and demeton-S-methyl

1968- Sulphuric acid (BOV) to burn off

tops

Areas harvested

Great Field IV Sawyers I

Barley and potatoes: 0.00520 0.00572

Swedes: 0.00390 0.00429

Soil series

Great Field Batcombe series

Sawyers I Batcombe series with sandier variants.