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# Yields of the Field Experiments 1978



Full Table of Content

## 78/R/PG/5 Park Grass - Old Grass

### **Rothamsted Research**

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#### 78/R/PG/5

#### PARK GRASS

Object: To study the effects of organic and inorganic manures and lime on old grass (for hay).

The 123rd year, hay.

For previous years see 'Details' 1967 and 1973 and 74-77/R/PG/5.

Treatments:

Whole plots

```
MANURE
              Fertilisers and organic manures:-
N1
               Plot 1
                            N1
O(D)
              Plot 2
                            None (D until 1863)
O/PLOT3
              Plot 3
                            None
              Plot 4-1
                            P
N2P
              Plot 4-2
                            N2 P
                            N1 P K Na Mg
N1MIN
              Plot 6
              Plot 7
Plot 8
                            P K Na Mg
MIN
                            P Na Mg
PNAMG
              Plot 9
N2MIN
                            N2 P K Na Mg
N2PNAMG
              Plot 10
                            N2 P Na Mg
N3MIN
              Plot 11-1
                            N3 P K Na Mg
              Plot 11-2
                            N3 P K Na Mg Si
N3MINSI
              Plot 12
O/PLOT12
                            None
              Plot 13
D/F
                            D/F
                            N2* P K Na Mg
N2*MIN
              Plot 14
MIN(N2*)
              Plot 15
                            P K Na Mg (N2* until 1875)
N1*MIN
                            N1* P K Na Mg
              Plot 16
              Plot 17
N1*
                            N1*
N2KNAMG
               Plot 18
                            N2 K Na Mg
               Plot 19
                            D
                            D/N*P K
D/N*PK
              Plot 20
                  48, 96, 144 kg N as sulphate of ammonia
N1, N2, N3:
N1*, N2*:
                 48, 96 kg N as nitrate of soda (30 kg N to Plot 20, only in years
                    with no farmyard manure)
P:
                  35 kg P (15 kg P to Plot 20, only in years with no farmyard manure)
                    as single superphosphate (triple superphosphate in 1974)
K:
                 225 kg K (45 kg K to Plot 20, only in years with no farmyard manure)
                    as sulphate of potash
Na:
                  15 kg Na as sulphate of soda
Mg:
                 10 kg Mg as sulphate of magnesia
Si:
                 Silicate of soda at 450 kg
                 Farmyard manure at 35 tonnes every fourth year
D:
F:
                 Fish meal every fourth year to supply 63 kg N
MIN:
                 P K Na Mg
Sub plots
LIME
              Liming:-
A
              a Ground chalk applied as necessary to achieve pH7
B
              b Ground chalk applied as necessary to achieve pH6
C
              c Ground chalk applied as necessary to achieve pH5
D
              d None
```

#### 78/R/PG/5

NOTE: Lime was applied regularly, and at the same rate, to all a and b sub plots of Plots 1 to 17 (except 12) from 1924. Differential liming started in 1965 on certain b and c sub plots (except on Plot 12) and in 1976 on certain a sub plots (including Plot 12) and 12b.

Additional sub plots (Plots 18, 19 and 20 only) (tonnes CaCO3 applied every fourth year 1920-1964):-

N2KNAMGO N2KNAMG2	18-1 None 18-2 13.5
N2KNAMG1	18-3 7.9
DO	19-1 None
D2	19-2 6.3
D1	19-3 1.1
D/N*PKO	20-1 None
D/N*PK2	20-2 5.6
D/N*PK1	20-3 1.1

Since 1965 Plot 18-1 has been split into two for treatments 'c' and 'd' above and Plot 18-3 split into two for treatments 'a' and 'b'. The remaining sub-plots of Plots 18, 19 and 20 are treated as 'a'.

NOTE: For a fuller record of treatments see 'Details' etc.

Cultivations, etc.:- Mineral fertilisers applied: 22 Dec, 1977. N applied: 1st dressing: 25 Apr, 1978. 2nd dressing: 19 May. Cut twice: 20 June, 2 Nov.