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Plan and Layout

Rothamsted Research

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| | | | | а | b c | d |
|------|----------|--------------|---------------|---|---------------------|--------|
| - | 13/2 | | | | FYM/PM | 19 |
| | and a | | 13/1 | | (FYM/Fishmeal) | |
| | | 8 | 12 | | Nil | 5 |
| 18d | | N. | 11/2 | 22.3 | N3 PK Na Mg Si | |
| 18c | | | 11/1 | | N3 PK Na Mg | |
| | | | 10 | | N2 P Na Mg | |
| 18/2 | N2 K1 | Na Mg | 9/2 | 1. N. | N2 PK Na Mg | |
| 18b | | | 9/1 | no | (N2) PK Na Mg | |
| 18a | | | 8 | China | P Na Mg | |
| | 19/1 | | 7 | 1 | P K Na Mg | |
| | 19/2 | FYM | - | 1 | | |
| | 19/3 | | 6 | N1 F | P K Na Mg | |
| | 20/1 | | 5 | These areas used for microplot experiments. | | |
| | 20/2 | FYM/ N*PK | 4/2 | | N2 P | |
| | 20/3 | | 4/1 | 1 | P | |
| 2/ | | | 3 | 2 | Nil | |
| | | | 2/2 2/1 | | Nil K since 1996 | |
| | | | 21 | 1 | N1 | |
| | | | | 14/2 | N*2 P K Na Mg | |
| | | | | 14/1 | (N*2) PK Na Mg | - |
| | | | | 15 | P K Na Mg | |
| | | | | 16 | N*1 P K Na Mg | Arch 1 |
| | | | | 17 | N*1 | |
| F | Front co | ver: Aer | ial view of P | ark Grass ta | aken 23rd May 2005 | |

| Plot layout and current treatments | |
|--|-------|
| Plot treatments (per hectare per year unless indicated) | |
| Nitrogen (applied in spring) | |
| N1, N2, N3: ammonium sulphate supplying 48, 96, 144 kg N and 55, 110, 165 kg S | ŝ |
| N*1, N*2: sodium nitrate supplying 48, 96 kg N and 78, 157 kg Na | A Sta |
| (N2), (N*2): last applied 1989 | |
| Minerals (applied in winter) | |
| P: triple superphosphate supplying 35 kg P | |
| K: potassium sulphate supplying 225 kg K and 99 kg S | |
| Na: sodium sulphate supplying 15 kg Na and 10 kg S | |
| Mg: magnesium sulphate (Epsom salts) supplying 10 kg Mg and 13 kg S | |
| Si: water soluble sodium silicate supplying 135 kg Si and 63 kg Na | |
| Plot 20: rates of fertilizer in years when FYM is not applied; 30 kg N*, 15 kg P, 45 kg K | |
| Organics (applied every 4th year) | |
| FYM: 351 farmyard manure supplying c. 240 kg N, 45 kg P, 350 kg K, 25 kg Na, 25 kg Mg, 40 kg S, 135 kg Ca | |
| PM: Pelleted poultry manure (replaced fishmeal in 2003) supplying c. 65 kg N | - |
| On plot 13/2 FYM and PM (previously fishmeal) are applied in a 4-year cycle <i>ie:</i> FYM in 2005, 2001, 1997, 1993 <i>etc</i> PM in 2003, fishmeal in 1999, 1995, 1991 <i>etc</i> | |
| (FYM/Fishmeal): FYM and fishmeal last applied in 1993 and 1995 respectively. | - |
| Lime | |
| Sub-plots a, b and c: differential amounts of chalk applied, <i>if needed</i> , every three years to maintain soil pH 7, 6 and 5, respectively | |
| Sub-plot d receives no chalk | |
| | |
| Plots 1-13 started in 1856, plots 14-17 in 1858, plot 18 in 1865 and plots 19 and 20 in 1872. | |
| Sub-plots range in size from 75 - 634 m ² | |
| | |
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| and the state of t | |