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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	
	SX.
and the state of t	