ROTHAMSTED RESEARCH

Yields of the Field Experiments 1951

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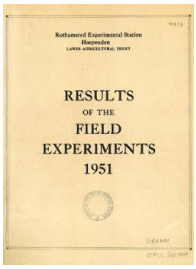

51/CH/2 Permanent Grass - Nitophosphates - Rothamsted

Rothamsted Research

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51/Ch/2

PERMANENT GRASS

Nitrophosphates - Highfield 9 1951.

System of replication: 6 × 6 Latin square.

Area of each plot: 0.0102 acre

Treatments: None; Sulphate of ammonia; Superphosphate; Sulphate of ammonia and superphosphate; British nitrophosphate (12.8% N, 15.25% P_2O_5); Dutch nitrophosphate (20% N, 20.3% P_2O_5). The dressings supply 0.39 cwt N and 0.39 cwt P_2O_5 per acre, the British nitrophosphate receiving extra N to reach this standard.

Basal manuring: 1⅓ cwt muriate of potash per acre.

Cultivations, etc.: Fertilizer applied: Mar 28. Cut: July 3.

Standard errors per plot:
Hay, dry matter: 1.52 cwt per acre or 5.4% (20 d.f.)
P_2O_5 uptake: 0.00803 cwt per acre or 6.7% (20 d.f.)

Summary of Results

	No fertilizer	Sulphate of Ammonia	Superphosphate	Sulphate of Ammonia and Superphosphate	British Nitrophosphate	Dutch Nitrophosphate	Mean
	Hay, dry matter: cwt per acre						
Mean (±0.62)	24.9	29.9	23.5	30.5	29.6	29.8	28.1
Increase (±0.88)		5.0	-1.4	5.6	4.7	4.9	
	P_2O_5 uptake: cwt per acre						
Mean (±0.0033)	0.101	0.115	0.109	0.137	0.125	0.134	0.120
Increase (±0.0046)		0.014	0.008	0.036	0.024	0.033	

Mean Dry Matter %: 72.6

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