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Report for 1933



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Chemical Analysis of Manures Used in Replicated Experiments, 1933

Rothamsted Research

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CHEMICAL ANALYSIS OF MANURES USED IN REPLICATED EXPERIMENTS, 1933.

Manures.		% N	%P2O5	% K ₂ O		
Sulphate of Amm.		20.8-21.1				
Bicarbonate of Amm.		17.7	-			
Nitrate of Soda		15.8—16.1	_	_		
Nitrochalk		15.5	_	_		
Poultry Manure (1)		3.85	3.22	1.67		
Poultry Manure (2)		4.38	4.05	1.94		
Poultry Manure (3)		3.58	2.89	1.63		
Poultry Manure (4)		3.68				
Poultry Manure (5)		4.37		_		
Poultry Manure (fresh)		1.25	1.80	Marie		
Guano		6.50	16.4			
Dung		0.68	0.25	0.89		
		0.00	0.20	0.00		
		%P ₂ O ₅				
*		Total.	Soluble in Water.	Soluble in Cit. Acid.		
Basic Slag High Sol.		14.9		14.4		
Basic Slag Low Sol.		15.1	_	3.5		
Mineral Phosphate—						
(90% through 12 mesh)		25.9	_	_		
Superphosphate (6)		16.1	_	_		
Superphosphate		17.5	16.4	-		
Sulphate of Potash Potash Manure Salt 30% Muriate of Potash	$ \begin{array}{c} 49.2 \\ 30.9 \\ 52.3 \end{array} $	%K ₂ O				

Poultry Manures Nos. 1-5 were obtain in a dried, ground form.

- (1) Used in all poultry manure experiments except at Rothamsted, Woburn, Portobello, Honeydon.
- (2) Used at Rothamsted.
- (3) Used at Woburn.
- (4) Used at Portobello.
- (5) Used at Honeydon.
- (6) Used only in experiments testing basic slags.

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Three Course Rotation, 1933

		% Organic Matter.	% N	% P ₂ O ₅	% K ₂ O
		77.3 14.1	0.301 0.302	0.097 0.265	1.053 0.160
		_	_	17.0(1) 17.5(2)	_
::	::		21.2(1) 21.2(2)		52.1(1) 52.3(
		_	15.9	_	49.2
	::	: ::	Matter. 77.3 14.1	Matter. % N 77.3 0.301 0.302 21.2(1) 21.2(2)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

¹ Applied in Autumn. ² Applied in Spring.

Four Course Rotation, 1933

Manures.		% Organic Matter.	% N	% P ₂ O ₅	% K50
Chaffed Straw	 	77.3	0.301	0.097	1.053
Dung	 	18.6	0.507	0.203	0.859
Adco	 	14.1	0.302	0.265	0.160
Superphosphate	 	_	-	17.0	
Mineral Phosphate— 90% through 120 mesh		_	_	26.7	
Muriate of Potash	 	_		-	52.1
Sulphate of Ammonia	 	_	21.2	_	_

Six Course Rotation, 1933

Sulphate of Ammonia .. 21.2% N. .. $52.1\% \text{ K}_2\text{O}$.. $17.0\% \text{ P}_2\text{O}_5$ Muriate of Potash Superphosphate ..

AVERAGE WHEAT YIELDS OF VARIOUS COUNTRIES

Country.		Mean yield per acre, 1923-32. cwt.					Mean yield per acre, 1923-32. cwt.
Great Britain England and Wales	::	17.5 17.3	Denmark Argentine				22.5 6.7
Hertfordshire		16.1 11.4	Australia Canada			::	6.4
France		15.8 20.4	United Stat U.S.S.R. (E				7.7 5.6*

Note.—Figures for Great Britain, England and Hertfordshire are taken from the Ministry of Agriculture's "Agricultural Statistics," Vol. 67. Other figures from "International Year Book of Agricultural Statistics," 1925-33.

^{*1924-32,} excluding 1931.