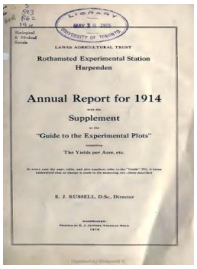
Annual Report for 1914 With the Supplements to the Guide to the Experimental Plots Containing the Yields per Acre, Etc.



Full Table of Content

Trials With Various Nitrogenous Manures : Potatoes ; Mangolds ; Oats (Sawpit Field) ; Meadow Hay

Rothamsted Research

Rothamsted Research (1915) *Trials With Various Nitrogenous Manures : Potatoes ; Mangolds ; Oats (Sawpit Field) ; Meadow Hay ;* Annual Report For 1914 With The Supplements To The Guide To The Experimental Plots Containing The Yields Per Acre, Etc., pp 39 - 40 **- DOI: https://doi.org/10.23637/ERADOC-1-107**

TRIALS WITH VARIOUS NITROGENOUS MANURES.

Potatoes. Great Harpenden Field, 1914.

Plots.	Manuring.	Produce per Acre.
		Tons.
1	12 tons Dung	7·1
2	12 tons Dung, 3 cwt. Superphosphate and 1¼ cwt. Mur. Potash	7·2
3	As 2 and 175 lb. Nitrolim	8·7
4	As 2 and 220 lb. Nitrate of Lime	8·6
5	As 2 and 80 lb. Nitrate of Ammonia	9·0

The dressings of Nitrolim, Nitrate of Lime, and Nitrate of Ammonia each contained 27 lb. of Nitrogen.

Mangolds. Great Harpenden Field, 1914.

Manuring.	Series A.	Series B.
	Tons.	Tons.
12 tons Dung, 3 cwt. Superphosphate and ¾ cwt. Muriate Potash and ½ cwt. Salt	17·5	18·1
As 1 and 175 lb. Nitrolim	17·9	18·8
As 1 and 220 lb. Nitrate Lime	20·1	21·8
As 1 and 80 lb. Nitrate Ammonia	18·3	19·1

The Nitrolim, Nitrate of Lime and Nitrate of Ammonia each contained 27 lb. Nitrogen.

Oats (Grey Winter). Sawpit Field, 1914.

Manuring.	Dressed Grain.		Straw per Acre.	Total Produce per Acre.
	Yield per Acre.	Weight per Bushel.		
	Bushels.	lb.	cwt.	lb.
Control—Unmanured ...	41·3	43·8	19·7	4040
106·6 lb. Nitrolim	46·0	43·7	25·7	4903
106·6 lb. Nitrate of Soda ...	44·1	43·6	24·7	4708

The Nitrolim and Nitrate of Soda each contained 16·7 lb. Nitrogen.

Meadow Hay. Great Field, 1914.

Manuring.	Hay per Acre (1 crop).
	cwt.
Control—7½ cwt. Basic Slag	17·6
Ditto and 1136 lb. No. 1 Sludge (dried) ...	18·6
Ditto and 1290 lb. No. 2 Sludge (de-greased) ...	16·2
Ditto and 129 lb. Nitrate Soda	25·9
Ditto and 129 lb. Nitrolim	21·5

The Sludges, Nitrate of Soda and Nitrolim each contained 20 lb. of Nitrogen.

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TRIALS WITH VARIOUS NITROGENOUS MANURES.—Contd.

Oats (Grey Winter). Sawpit Field, 1914.

Manuring.	Dressed Grain.		Straw per Acre.	Total Produce per Acre.
	Yield per Acre.	Weight per Bushel.		
	Bushels.	lb.	cwt.	lb.
Control—Unmanured	41·3	43·8	19·7	4040
946 lb. No. 1 Sludge (dried) ...	36·3	44·1	17·9	3614
1076 lb. No. 2 Sludge (de-greased) ...	37·4	44·5	19·1	3815
106·6 lb. Nitrate Soda	44·1	43·6	24·7	4708

The Sludges and the Nitrate of Soda each contained 16·7 lb. Nitrogen.

EXPERIMENTS IN SOIL MANAGEMENT.

FALLOWING.

	Dressed Grain.		Straw per Acre.	Total Produce per Acre.
	Yield per Acre.	Weight per Bushel		
Oats (Grey Winter). Sawpit Field, 1914.				
	Bushels.	lb.	cwt.	lb.
Fallow after Dredge Corn	67·7	44·9	41·5	7743
No fallow—Wheat and Potatoes previously	37·1	44·6	18·3	3747
Wheat (Square Head's Master). Broadbalk Field, 1914.				
Fallow after Lucerne	31·2	63·9	31·0	5740

The Broadbalk results compare with those on p. 36.

MIXED CROPS

Sawpit Field, 1912. Little Knott Wood Field, 1913. Long Hoos Field, 1914.

Crop.	Dressed Grain.						Straw.			Total Produce.		
	Yield.			Weight per Bushel.								
	1912.	1913.	1914.	1912.	1913.	1914.	1912.	1913.	1914.	1912.	1913.	1914.
	Bushels	Bushels	Bushels	lb.	lb.	lb.	cwt.	cwt.	cwt.	lb.	lb.	lb.
Oats & Barley	27·7	26·2	21·7	49·0	50·5	46·2	26·3	15·2	19·6	4318	3046	3240
Oats alone	17·3	19·7	6·4	33·1	41·2	33·0	26·4	12·2	11·4	3593	2200	1531
Barley alone	36·2	32·4	17·0	50·5	53·6	53·7	26·8	18·4	13·9	5081	3800	2666

Crops grown after Swedes; no manure was given.

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