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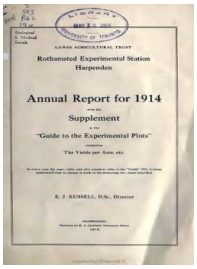
Annual Report for 1914 With the Supplements to the Guide to the Experimental Plots Containing the Yields per Acre, Etc.



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Experiments in Soil Management : Fallowing; Mixed Crops

Rothamsted Research

Rothamsted Research (1915) *Experiments in Soil Management : Fallowing; Mixed Crops ;* Annual Report For 1914 With The Supplements To The Guide To The Experimental Plots Containing The Yields Per Acre, Etc., pp 40 - 41 **- DOI: https://doi.org/10.23637/ERADOC-1-107**

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TRIALS WITH VARIOUS NITROGENOUS MANURES.—Contd.

Oats (Grey Winter). Sawpit Field, 1914.

Manuring.	Dressed Grain. Yield per Acre.	Dressed Grain. Weight per Bushel.	Straw per Acre.	Total Produce per Acre.
	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. Yield per Acre.	Dressed Grain. Weight per Bushel	Straw per Acre.	Total Produce per Acre.
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. Yield. 1912.	Yield. 1913.	Yield. 1914.	Weight per Bushel. 1912.	Weight per Bushel. 1913.	Weight per Bushel. 1914.	Straw. 1912.	Straw. 1913.	Straw. 1914.	Total Produce. 1912.	Total Produce. 1913.	Total Produce. 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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EXPERIMENTS IN SOIL MANAGEMENT.—Contd.

CHALKING.

Barley (Plumage Cross). Great Knott Wood Field, 1913 and 1914.

	Dressed Grain.				Straw.		Total Produce.	
	Yield.		Weight per Bushel.					
	1913.	1914.	1913.	1914.	1913.	1914.	1913.	1914.
	Bushels	Bushels	lb.	lb.	cwt.	cwt.	lb.	lb.
Unchalked ...	59·4	30·3	54·5	53·8	24·1	17·6	5994	3990
Chalked ...	68·2	28·8	54·6	53·5	26·6	19·2	6760	4053

Both plots manured with ¾ cwt. Sulphate Ammonia and 2½ cwt. Superphosphate per acre in 1913, and in 1914 1 cwt. Sulphate Ammonia and 2 cwt. Superphosphate.

Oats (Grey Winter). Sawpit Field, 1914.

	Dressed Grain.		Straw per Acre.	Total Produce per Acre.
	Yield per Acre.	Weight per Bushel.		
After Fallow and Dredge Corn :	Bushels.	lb.	cwt.	lb.
20 loads Carted Chalk (1) ...	37·3	43·9	32·3	5351
50 loads Dug Chalk (2) ...	41·1	44·1	38·4	6159
Unchalked	44·6	44·1	35·7	6006

(1) From excavations for Harpenden Sewage Beds. (2) From Rothamsted Fields.

Potatoes (Dalhousie). Great Harpenden Field, 1914.

Dressings.	Tons per acre.				Mean.
Unchalked	8·9	8·7	9·8	9·6	9·3
Chalked (about 20 loads per Acre)	9·0	8·5	—	—	8·8

SUBSOILING.

Potatoes (King Edward VII). Great Harpenden Field, 1914.

	Ploughed & Subsoiled.		Ploughed only.	
	Tons.		Tons.	
Chalked (about 20 loads per acre)	7·2		6·7	
Unchalked	7·2	Mean 7·4	6·2	Mean 6·9
,, ...	8·0		7·0	
,, ...	7·2		7·7	
,, ...	7·1		6·7	

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