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Annual Report for 1913 With the Supplements to the Guide to the Experimental Plots Containing the Yields per Acre, Etc.



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Permanent Barley Plots Hoos Field 1913 ; Barley Hoos Field 1913

Rothamsted Research

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PERMANENT BARLEY PLOTS. HOOS FIELD, 1913.

(See "Guide," 1913, page 37, Table XVIII.)

Plot	Manuring.	1913.			Average 60 years, 1852—1911.	
		Dressed Grain.	Weight per Bushel.	Straw.	Dressed Grain.	Straw.
		Bushels.	lb.	cwt.	Bushels.	cwt.
1 O	Unmanured	21.1	55.5	9.8	12.7	8.4
2 O	Superphosphate only	34.1	56.9	13.6	19.7	10.0
3 O	Alkali Salts only	25.4	56.3	12.3	15.2	8.8
4 O	Complete Minerals	40.3	57.5	19.8	19.7	11.1
1 A	Ammonium Salts only	40.8	55.9	18.8	25.5	14.7
2 A	Superphosphate and Amm. Salts	64.1	57.1	27.9	38.2	22.0
3 A	Alkali Salts " " " "	37.0	56.4	17.7	28.0	16.9
4 A	Complete Minerals " " " "	63.6	57.3	30.2	41.5	25.0
1 AA	Nitrate of Soda only	40.4	56.9	21.0	29.3	17.8
2 AA	Superphosphate and Nitrate Soda	60.7	58.0	30.7	43.1	26.3
3 AA	Alkali Salts " " " "	40.3	57.3	20.9	30.0	19.3
4 AA	Complete Minerals " " " "	60.8	58.1	31.2	42.7	27.3
1 AAS	As Plot 1 AA and Silicate of Soda	50.7	57.8	26.0	32.8 (1)	19.7 (1)
2 AAS	" " 2 AA " " " "	60.1	57.6	31.5	42.3 (1)	26.0 (1)
3 AAS	" " 3 AA " " " "	50.1	57.7	25.8	35.2 (1)	21.7 (1)
4 AAS	" " 4 AA " " " "	59.5	58.0	31.6	43.6 (1)	27.7 (1)
1 C	Rape Cake only	50.3	57.9	23.9	38.3	22.1
2 C	Superphosphate and Rape Cake	55.6	57.0	27.7	40.5	23.6
3 C	Alkali Salts " " " "	52.9	58.2	25.8	36.9	22.3
4 C	Complete Minerals " " " "	54.9	58.3	26.9	40.5	24.5
7—1	Unmanured (after dung 20 years, 1852—71)	42.9	57.1	17.9	24.8 (2)	14.8 (2)
7—2	Farmyard Manure	61.7	57.8	31.9	47.1	29.6

(1) 48 years, 1864—1911. (2) 40 years, 1872—1911.

NOTE.—The whole of the above plots were followed in 1912.

BARLEY. HOOS FIELD, 1913.

(See "Guide," 1913, page 43, Table XX.)

Plot.	Manures applied to the Potatoes, 1876-1901. Unmanured since.	Dressed Grain.		Straw per Acre.	Total Produce per Acre.
		Yield per Acre.	Weight per Bushel.		
Previous Cropping: Potatoes, 1876-1901; Barley, 1902 and 1903; Oats, 1904; Barley, 1905-1911; Oats, 1912.					
1	Unmanured	Bushels. 18.4	lb. 56.6	cwt. 9.2	lb. 2093
2	Unmanured 1882 to 1901, previously Dung only	25.6	57.2	12.2	2854
3	Dung 1883 to 1901	34.2	57.3	17.3	3930
4	Dung 1883 to 1901	33.7	57.1	17.3	3896
Previous Cropping: Potatoes, 1876-1901; Barley, 1902-1903; Oats, 1904; Plots 5, 7, 9, Cow Peas (failed), 1905; Plots 6, 8, 10, Red Clover, 1905; 1906-1911, all Plots Red Clover; Oats, 1912.					
5	Ammonium Salts	29.0	56.6	13.8	3205
6	Nitrate of Soda	30.6	56.3	13.9	3302
7	(Ammonium Salts and Mixed Minerals)	44.2	57.0	20.9	4889
8	(Nitrate of Soda and Mixed Minerals)	43.4	57.2	20.1	4761
9	Superphosphate	33.9	56.8	15.8	3725
10	Mixed Minerals	35.9	57.2	16.6	3935