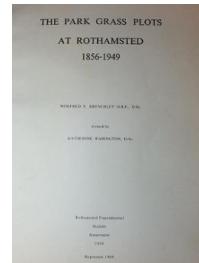


Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



The Park Grass Plots at Rothamsted 1856 -1949

[Full Table of Content](#)



Chapter II. Flowering Plants and Mosses

Rothamsted Research

Rothamsted Research (1958) *Chapter II. Flowering Plants and Mosses ; The Park Grass Plots At Rothamsted 1856 -1949*, pp -3 - -1 - DOI: <https://doi.org/10.23637/ERADOC-1-154>

Page	
13	CHAPTER IV
13	EFFECT OF MANURES AND LIME ON INDIVIDUAL PLOTS
13	A. <u>No Manure</u> (Table 2)
13	Unmanured since 1856, Plot 3 (Fig. 4)
17	Do. Plot 12
19	Unmanured after Farmyard Manure 1856-1863, Plot 2
22	Unmanured after Ammonium Salts 1856-1897, Plot 5 ¹ (Fig. 5)
24	B. <u>Mineral Manures</u> (Tables 3 and 4)
24	Mixed Mineral Manure, Plot 7 (Fig. 6)
28	Do. without Potash, Plot 8 (Fig. 7)
32	Mixed Mineral Manure after Ammonium Salts 1856-1868, Plot 6
34	Mixed Mineral Manure after Nitrate of Soda 1858-1875, Plot 15
38	Superphosphate and Sulphate of Potash after Ammonium Salts 1856-1897, Plot 5 ²
41	Superphosphate, Plot 4 ¹ (Fig. 8)
44	C. <u>Nitrate of Soda with and without Mineral Manures</u> (Table 4)
44	Nitrate of Soda (= 43 lb. N per acre), Plot 17
47	Do. and Mixed Mineral Manure, Plot 16 (Fig. 9)
51	Nitrate of Soda (= 86 lb. N per acre) and Mixed Mineral Manure, Plot 14
55	D. <u>Ammonium Salts with Mixed Mineral Manures</u> (Table 5)
55	Ammonium Salts (= 86 lb. N per acre) and Mixed Mineral Manure, Plot 9 (Fig. 10)
59	Do. without Potash, Plot 10
62	Ammonium Salts (= 129 lb. N per acre) and Mixed Mineral Manure, Plot 11 ¹
65	Do. with Silicate of Soda, Plot 11 ²
68	E. <u>Ammonium Salts Alone or with Incomplete Mineral Manure</u> (Tables 5 and 6)
68	Ammonium Salts (= 43 lb. N per acre) Alone, also with F.Y.M. 1856-1863, Plot 1
71	Ammonium Salts (86 lb. N per acre) and Superphosphate, Plot 4 ² (Fig. 11)
74	Ammonium Salts (86 lb. N per acre) and Mineral Manure without Superphosphate, after Minerals and Ammonium Salts Supplying Constituents of 1 ton of Hay 1865-1904, Plot 18

Page	
78	F. <u>Organic Manures</u> (Table 6)
78	Farmyard Manure and Fish Guano alternately (each once in 4 years) after Cut Wheat Straw, Mineral and Ammonium Salts 1856-1897, and Minerals and Ammonium Salts 1898-1904, Plot 13
81	Farmyard Manure every fourth year, after Nitrate of Soda and Minerals 1872-1904, Plot 19
85	Farmyard Manure every fourth year, with Nitrate of Soda and Minerals in intervening years, after Nitrate of Potash and Superphosphate, 1872-1904, Plot 20

90 CHAPTER V

EFFECT OF MANURES AND LIME ON INDIVIDUAL SPECIES

90 A. GRAMINEAE

90	<u>Agrostis vulgaris</u> (<u>A. tenuis</u>) (Fig. 12)
93	<u>Aira caespitosa</u> (<u>Deschampsia caespitosa</u>)
93	<u>Alopecurus pratensis</u> (Fig. 13)
96	<u>Anthoxanthum odoratum</u> (Fig. 14)
98	<u>Arrhenatherum avenaceum</u> (<u>A. elatius</u>) (Fig. 15)
101	<u>Avena flavescens</u> (<u>Trisetum flavescens</u>)
102	<u>Avena pubescens</u> (<u>Helictotrichon pubescens</u>) (Fig. 16)
105	<u>Briza media</u>
106	<u>Bromus mollis</u>
107	<u>Cynosurus cristatus</u>
107	<u>Dactylis glomerata</u>
110	<u>Festuca rubra</u> (Fig. 17)
112	<u>Festuca pratensis</u> .
112	<u>Holcus lanatus</u> (Fig. 18)
115	<u>Lolium perenne</u>
115	<u>Poa pratensis</u> (Fig. 19)
116	<u>Poa trivialis</u>

117 B. LEGUMINOSAE

117	<u>Lathyrus pratensis</u>
119	<u>Lotus corniculatus</u>
120	<u>Ononis arvensis</u> (<u>O. repens</u>)
120	<u>Trifolium pratense</u>
122	<u>Trifolium repens</u>
122	<u>Vicia sepium</u>

Page	
123	C. MISCELLANEOUS SPECIES
123	<u>Achillea millefolium</u>
123	<u>Agrimonia eupatoria</u>
124	<u>Ajuga reptans</u>
125	<u>Anthriscus sylvestris</u>
125	<u>Carex praecox</u> (<u>C. caryophyllea</u>)
126	<u>Centaurea nigra</u>
127	<u>Cerastium vulgatum</u>
127	<u>Conopodium denudatum</u> (<u>C. majus</u>)
128	<u>Epilobium angustifolium</u> (<u>Chamaenerion angustifolium</u>)
128	<u>Galium verum</u>
129	<u>Heracleum sphondylium</u>
129	<u>Hieraceum pilosella</u>
130	<u>Hypochaeris radicata</u>
130	<u>Leontodon autumnalis</u>
132	<u>Leontodon hispidus</u> (Fig. 20)
133	<u>Linum catharticum</u>
133	<u>Luzula campestris</u>
133	<u>Pimpinella saxifraga</u>
133	<u>Plantago lanceolata</u> (Fig. 21)
135	<u>Potentilla reptans</u>
136	<u>Poterium sanguisorba</u>
136	<u>Primula veris</u>
137	<u>Ranunculus acris et bulbosus</u>
138	<u>Rumex acetosa</u> (Fig. 22)
139	<u>Scabiosa arvensis</u>
140	<u>Spirea ulmaria</u> (<u>Filipendula ulmaria</u>)
140	<u>Stellaria graminea</u>
141	<u>Taraxacum vulgare</u> (<u>T. officinale</u>)
142	<u>Tragopogon pratensis</u>
142	<u>Urtica dioica</u>
142	<u>Veronica chamaedrys</u>

FIGURES

- Fig. 1. Percentage of Gramineae in 1947
2. Percentage of Leguminosae in 1947
3. Percentage of Miscellaneous Species in 1947
4. Yield (lb. per acre 1st crop) Plot 3, unlimed and limed
5. Yield (lb. per acre 1st crop) Plot 5, showing effect of change
 in manuring in 1897
6. Yield (lb. per acre 1st crop) Plot 7, unlimed and limed