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Yields of the Field Experiments 1898

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List of Papers Published

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The following lists give the titles of the papers already published, arranged in two Series, and within each Series arranged in chronological order; and they show in what Journal each paper appeared.

SERIES I.—REPORTS OF FIELD EXPERIMENTS, EXPERIMENTS ON VEGETATION, &c.

PUBLISHED 1847—1898, INCLUSIVE.

1. Agricultural Chemistry (Jour. Roy. Ag. Soc. Eng., vol. viii., p. 226) 1847
2. Agricultural Chemistry, Turnip Culture (Jour. Roy. Ag. Soc. Eng., vol. viii., p. 494) 1847
3. Experimental Investigation into the Amount of Water Given Off by Plants during their Growth, especially in relation to the Fixation and Source of their various Constituents (Jour. Hort. Soc. Lond., vol. v., p. 38) 1850
4. Report of some Experiments undertaken at the suggestion of Professor Lindley, to ascertain the Comparative Evaporating Properties of Evergreen and Deciduous Trees (Jour. Hort. Soc. Lond., vol. vi., p. 227) 1851
5. Agricultural Chemistry, especially in relation to the Mineral Theory of Baron Liebig (Jour. Roy. Ag. Soc. Eng., vol. xii., p. 1) 1851
6. On the Amounts of, and Methods of Estimating, Ammonia and Nitric Acid in Rain-water (Report of the British Association for the Advancement of Science for 1854—Liverpool Meeting) 1854
7. Report to the Right Hon. the Earl of Leicester, on the Experiments, conducted by Mr. Keary, on the Growth of Wheat upon the same land for four successive years, at Holkham Park Farm (Jour. Roy. Ag. Soc. Eng., vol. xvi., p. 207) 1855
8. On some points connected with Agricultural Chemistry; being a reply to Baron Liebig's "Principles of Agricultural Chemistry" (Jour. Roy. Ag. Soc. Eng., vol. xvi., p. 411) 185
9. On the Growth of Wheat by the Lois Weedon System, on the Rothamsted Soil; and on the Combined Nitrogen in Soils (Jour. Roy. Ag. Soc. Eng., vol. xvii., p. 582) 1856
10. On some points in the Composition of Wheat Grain, its Products in the Mill, and Bread (Journal of the Chemical Society of London, vol. x., p. 1) 1857
11. On the Growth of Barley by Different Manures continuously on the Same Land; and on the Position of the Crop in Rotation (Jour. Roy. Ag. Soc. Eng., vol. xviii., p. 454) 1857
12. Report of Experiments with different Manures on Permanent Meadow Land, with Tabular Appendix (Jour. Roy. Ag. Soc. Eng., vols. xix., p. 552, and xx., pp. 228 and 398) 1858-9
13. Report of Experiments on the Growth of Red Clover by different Manures (Jour. Roy. Ag. Soc. Eng., vol. xxi., p. 178) 1860
14. On the Sources of the Nitrogen of Vegetation; with special reference to the question whether Plants Assimilate Free or Uncombined Nitrogen.—Abstract (Proceedings of the Royal Society of London, vol. x., p. 544) 1860
15. On the Application of Different Manures to Different Crops, and on their Proper Distribution on the Farm 1861
16. On some Points in connection with the Exhaustion of Soils.—Abstract (Report of the British Association for the Advancement of Science for 1861—Manchester Meeting) 1861
17. On the Sources of the Nitrogen of Vegetation, with special reference to the question whether Plants Assimilate Free or Uncombined Nitrogen (Philosophical Transactions, part 2, 1861, p. 431) 1861
18. Report of Experiments made at Rodmersham, Kent, on the Growth of Wheat by different Descriptions of Manure for several years in succession on the same land (Jour. Roy. Ag. Soc. Eng., vol. xxiii., p. 31) 1862

19. The Effects of Different Manures on the Mixed Herbage of Grass Land (Jour. Roy. Ag. Soc. Eng., vol. xxiv., p. 131) 1863
20. On the Sources of the Nitrogen of Vegetation, with special reference to the question whether Plants assimilate Free or Uncombined Nitrogen (Jour. Chem. Soc., new series, vol. i.; entire series, vol. xvi.) 1863
21. Liebig and the "Mineral Theory" (note, extracted from a paper by Messrs. Lawes and Gilbert, Jour. Roy. Ag. Soc. Eng., vol. xxiv., part 2) 1863
22. Further Report of Experiments with Different Manures on Permanent Meadow Land (Jour. Roy. Ag. Soc. Eng., vol. xxiv., part 2) 1863
23. Report of Experiments on the Growth of Wheat for Twenty Years in Succession on the same land (Jour. Roy. Ag. Soc. Eng., vol. xxv., parts 1 and 2) 1864
24. On the Selection of Artificial Manures for the Sugar-cane 1864
25. On the Accumulation of the Nitrogen of Manure in the Soil (Report of the British Association for the Advancement of Science for 1866—Nottingham Meeting) .. 1866
26. Preliminary Notice of Results on the Composition of Wheat grown for twenty years in succession on the same land (Report of the British Association for the Advancement of Science for 1867—Dundee Meeting) 1867
27. On the Home Produce, Imports, and Consumption of Wheat (Jour. Roy. Ag. Soc. Eng., vol. iv., s.s., part 2) 1868
28. Exhaustion of the Soil in relation to Landlords' Covenants, and the Valuation of Unexhausted Improvements (read before the London Farmers' Club, April 4, 1870) 1870
29. Scientific Agriculture with a view to Profit (read before the Maidstone Farmers' Club, Dec. 15, 1870) 1870
30. Reports of Experiments on the Influence of various Manures on different Species of Plants (Proceedings of the Royal Horticultural Society, p. 19) 1870
31. Effects of the Drought of 1870 on some of the Experimental Crops at Rothamsted (Jour. Roy. Ag. Soc. Eng., vol. vii., s.s., part 1) 1871
32. Notes on Clover Sickness (Jour. Roy. Hort. Soc., vol. iii., p. 86) 1871
33. Report of Experiments on the Growth of Barley for Twenty Years in Succession on the same land (Jour. Roy. Ag. Soc. Eng., vol. ix., s.s., parts 1 and 2) 1873
34. Unexhausted Tillages and Manures, with reference to the Landlord and Tenant (Ireland) Act, 1870 1874
35. On the more frequent Growth of Barley on Heavy Land (read before the London Farmers' Club, February 1, 1875) 1875
36. On the Valuation of Unexhausted Manures (Jour. Roy. Ag. Soc. Eng., vol. xi., s.s., part 1) 1875
37. Note on the Occurrence of "Fairy Rings" (Jour. Linn. Soc., Botany, vol. xv., p. 17) 1875
38. On some points in connection with Vegetation (Address delivered at South Kensington in the Chemical Section of the Science Conferences) 1876
39. On Rainfall, Evaporation, and Percolation (Proceedings of the Inst. of Civil Engineers, vol. xiv., part 3) 1876
40. Freedom in the Growth and Sale of the Crops of the Farm, considered in relation to the interests of the Landowner and the Tenant Farmer (Jour. Soc. Arts, December 14, 1877) 1877
41. Composition of Potatoes (Note—Jour. Roy. Hort. Soc., vol. v., part 5; Proceedings, p. xxxvii.) 1878
42. On Nitrification; Reports of Experiments made in the Rothamsted Laboratory. (Part I., Jour. Chem. Soc., January, 1878; Part II., Jour. Chem. Soc., July, 1879; Part III., Jour. Chem. Soc., December, 1884; Part IV., Jour. Chem. Soc., July, 1891.) See also—Rep. Brit. Ass. 1881—York Meeting; Jour. Chem. Soc., October 1885, February 1887, and August 1888 1878-91
43. Is Higher Farming a remedy for Lower Prices? (Lecture delivered before the East Berwickshire Agricultural Association, May 3, 1879. Published by G. Macaskie, 'Warder' Office, Berwick) 1879

44. On the Determination of Nitric Acid as Nitric Oxide, by means of its action on Mercury; a Report of Experiments made in the Rothamsted Laboratory (Jour. Chem. Soc., July, 1879) 1879
45. On the Determination of Nitric Acid by means of Indigo, with special reference to Water Analysis; a Report of Experiments made in the Rothamsted Laboratory (Jour. Chem. Soc., September, 1879). See also—Chem. News, Feb. 2 and 9, 1877 1877-79
46. Agricultural, Botanical, and Chemical Results of Experiments on the Mixed Herbage of Permanent Meadow, conducted for more than twenty years in succession on the same Land. Part I., The Agricultural Results. Abstract (Proceedings of the Royal Society, No. 197, 1879) 1879
47. On some points in connection with Agricultural Chemistry.—Abstract (Report of the British Association for the Advancement of Science for 1879—Sheffield Meeting) 1879
48. Our Climate and our Wheat-Crops (Jour. Roy. Ag. Soc. Eng., vol. xvi., s.s., part 1) 1880
49. On the Home Produce, Imports, Consumption, and Price of Wheat, over twenty-eight (or twenty-seven) harvest-years, 1852-53 to 1879-80 inclusive (Jour. of the Statistical Society, June, 1880) 1880
50. Agricultural, Botanical, and Chemical Results of Experiments on the Mixed Herbage of Permanent Meadow, conducted for more than twenty years in succession on the same Land.—Part I. The Agricultural Results. Full Paper. (Philosophical Transactions, part I, 1880) 1880
51. Sketch of the Progress of Agricultural Chemistry: Address to the Chemical Section of the British Association (Report of the British Association for the Advancement of Science for 1880—Swansea Meeting) 1880
52. On the Determination of Nitric Acid as Nitric Oxide by means of its reaction with Ferrous Salts. Reports of Experiments made in the Rothamsted Laboratory. (Part I., Jour. Chem. Soc., July, 1880. Part II., Jour. Chem. Soc., August, 1882) 1880-1882
53. On the Determination of Carbon in Soils; a Report of Experiments made in the Rothamsted Laboratory (Jour. Chem. Soc., September, 1880).. .. . 1880
54. On the Home Produce, Imports, Consumption, and Price of Wheat, over twenty-seven (or twenty-eight) harvest-years, 1852-3 to 1879-80 (Jour. Roy. Ag. Soc. Eng., vol. xvi., s.s., part 2, 1880) 1880
55. Agricultural, Botanical, and Chemical Results of Experiments on the Mixed Herbage of Permanent Meadow, conducted for more than twenty years in succession on the same land. Part II., The Botanical Results. Abstract (Proc. Roy. Soc., vol. xxx., p. 556) 1880
56. Letter on "Bread Reform" (Journal of the Society of Arts, January 21, 1881) .. 1881
57. On the Amount and Composition of the Rain and Drainage-Waters collected at Rothamsted; Parts I., II. and III. (Jour. Roy. Ag. Soc. Eng., vol. xvii., s.s. (1881), pp. 241-279, and 311-350; vol. xviii. (1882), pp. 1-71. In the separate copies of the entire paper, Section 3 of Part III. is given as Part IV., and Appendix Tables are also added) 1881-82
58. Letters on "Fertility" (Agricultural Gazette, Feb. 21 and 28; March 7, 14, and 21; April 4, 11, 18, and 25; May 2 and 9, 1881) 1881
59. Some Practical Aspects of recent investigations on Nitrification (Journal of the Society of Arts, April 7, 1882) 1882
60. Determinations of Nitrogen in the Soils of some of the Experimental Fields at Rothamsted, and the bearing of the results on the question of the Sources of the Nitrogen of our Crops. (Read at the Meeting of the American Association for the Advancement of Science, at Montreal, August, 1882) 1882
61. Agricultural, Botanical, and Chemical Results of Experiments on the Mixed Herbage of Permanent Meadow, conducted for more than twenty years in succession on the same land. Part II., The Botanical Results. Full Paper. (Phil. Trans., part. iv., 1882) 1882
- 61a. On the Determination of Nitric Acid in Soils (Jour. Chem. Soc., August, 1882) .. 1882

- 61b. On some of the changes which Nitrogenous Matter undergoes within the Soil (Lecture delivered at South Kensington, April 16, 1883) 1883
62. Contribution to the Chemistry of 'Fairy Rings' (Jour. Chem. Soc., May, 1883) .. 1883
63. New Determinations of Ammonia, Chlorine, and Sulphuric Acid, in the Rain-Water collected at Rothamsted (Jour. Roy. Ag. Soc. Eng., vol. xix., s.s., part 2, 1883) .. 1883
64. The Nitrogen as Nitric Acid, in the Soils and Subsoils of some of the Fields at Rothamsted (Jour. Roy. Ag. Soc. Eng., vol. xix., s.s., part 2, 1883) 1883
65. On the Composition of the Ash of Wheat-Grain, and Wheat-Straw, grown at Rothamsted, in different Seasons, and by different Manures (Jour. Chem. Soc., August, 1884) 1884
66. Report of Experiments on the Growth of Wheat for the second period of twenty years in succession on the same Land (Jour. Roy. Ag. Soc. Eng., vol. xx., s.s., part 2, 1884) 1884
67. On some points in the Composition of Soils; with Results illustrating the sources of the Fertility of Manitoba Prairie Soils (Brit. Ass. for the Advancement of Science, Montreal, September 2, 1884; Abstract—Rep. p. 686. Full Paper—Jour. Chem. Soc., June, 1885).. .. . 1884-1885
68. On Agricultural Investigation; being a Lecture delivered at the Michigan State Agricultural College, Lansing, Mich., October 14, 1884; and at Rutgers College, New Brunswick, N.J., October 27, 1884 1884
69. Note on some conditions of the development, and of the activity, of Chlorophyll.—Abstract (Report of the British Association for the Advancement of Science for 1885—Aberdeen Meeting) 1885
70. On the Valuation of Unexhausted Manures (Jour. Roy. Ag. Soc. Eng., vol. xxi., s.s., part II.) 1885
71. Results of Experiments at Rothamsted on the Growth of Barley for more than thirty years in succession on the same Land (Agricultural Students' Gazette, New Series, vol. iii., part I.) 1886
72. Remarques sur la relation qui existe entre les sommes de température et la production agricole (Archives des sciences physiques et naturelles, Troisième période, Tome xvi., No. 11, 15 Novembre, 1886) 1886
73. The Home Produce, Imports, Consumption and Price of Wheat in the United Kingdom, Thirty-four Harvest-years, 1852-3 to 1885-6 ('The Field,' February 12, 1887) 1887
74. A Contribution to the Study of Well Waters (Jour. Chem. Soc., June, 1887) .. 1887
75. On the present position of the question of the Sources of the Nitrogen of Vegetation, with some new results, and preliminary notice of new lines of investigation.—Preliminary Notice (Proc. Roy. Soc., vol. xliii., p. 108) 1887
76. Results of Experiments at Rothamsted on the Growth of Root-crops for many years in succession on the same Land (Agricultural Students' Gazette, New Series, vol. iii., part V.) 1887
77. On the Present Position of the Question of the Sources of Nitrogen of Vegetation, with some new Results, and Preliminary Notice of New Lines of Investigation. Full Paper. (Phil. Trans., vol. clxxx. (1889), B., pp. 1-107) 1889
78. Results of Experiments at Rothamsted on the Growth of Potatoes for twelve years in succession on the same Land (Agricultural Students' Gazette, New Series, vol. iv., part II.) 1888
79. The History of a Field newly laid down to Permanent Grass (Jour. Roy. Ag. Soc. Eng., vol. xxv., s.s., part I., 1889) 1889
80. The Amount of Nitric Acid in the Rain-Water at Rothamsted, with Notes on the Analysis of Rain-Water (Jour. Chem. Soc., August, 1889) 1889
81. Results of Experiments at Rothamsted on the Growth of Leguminous Crops for many years in succession on the same Land (Agricultural Students' Gazette, New Series, vol. iv., parts V. and VI.) 1889-90

82. New Experiments on the question of the Fixation of Free Nitrogen—Preliminary Notice (Proc. Roy. Soc., vol. xlvii., p. 85) 1890
83. The Food of our Agricultural Crops (Jour. Roy. Ag. Soc. Eng., vol. i., t.s., part I., 1890) 1890
84. Results of Experiments at Rothamsted on the Question of the Fixation of Free Nitrogen (Agricultural Students' Gazette, New Series, vol. v., parts II. and III.) 1890-91
85. Observations on Rainfall, Percolation, and Evaporation, at Rothamsted; with tabular results for twenty harvest-years (Sept. 1 to Aug. 31), 1870-1 to 1889-90 inclusive (Proceedings of the Inst. of Civil Engineers, vol. cv., part III.) 1891
86. Results of Experiments at Rothamsted on the Question of the Fixation of Free Nitrogen. Abstract of paper read before the Agric. Chem. Section of the Naturforscher Versammlung, at Halle, a. S. ('Nature,' Nov. 12, 1891) 1891
87. The Sources of the Nitrogen of our Leguminous Crops (Jour. Roy. Ag. Soc. Eng., vol. ii., t.s., part IV.; 1891) 1891
88. Allotments and Small Holdings (Jour. Roy. Ag. Soc. Eng., vol. iii., t.s., part III., 1892) 1892
89. Home Produce, Imports, Consumption, and Price, of Wheat, over 40 Harvest-years, 1852-3 to 1891-2 (Jour. Roy. Ag. Soc. Eng., vol. iv., t.s., part I., 1893) 1893
90. Rotation of Crops (Jour. Roy. Ag. Soc. Eng., vol. v., t.s., part IV., 1894) 1894
91. Upon some Properties of Soils, which have Grown a Cereal Crop and a Leguminous Crop for Many Years in Succession (Agricultural Students' Gazette, New Series, vol. vii., part III.) 1895
92. The Agricultural Investigations at Rothamsted, England, during a period of Fifty years. (United States Department of Agriculture, Washington; Office of Experiment Stations, Bulletin No. 22, 1895) 1895
93. The Rothamsted Experiments; being an account of some of the Results of the Agricultural Investigations conducted at Rothamsted, in the Field, the Feeding-shed, and the Laboratory, over a period of Fifty years (Transactions of the Highland and Agricultural Society of Scotland, Fifth Series, vol. vii., 1895) .. 1895
94. The Depression of Corn Prices; and the Production of Wheat in some of the chief Exporting Countries of the World (Jour. Roy. Ag. Soc. Eng., vol. vii., t.s., part IV., 1896) 1896
95. The Royal Commission on Agricultural Depression and the Valuation of Unexhausted Manures (Jour. Roy. Ag. Soc. Eng., vol. viii., t.s., part IV., 1897) .. 1897
96. The Valuation of the Manures obtained by the Consumption of Foods for the Production of Milk (Jour. Roy. Ag. Soc. Eng., vol. ix., t.s., part I., 1898) 1898
97. The Growth of Sugar-beet, and the Manufacture of Sugar, in the United Kingdom (Jour. Roy. Ag. Soc. Eng., vol. ix., t.s., part II., 1898) 1898

SERIES II.—REPORTS OF EXPERIMENTS ON THE FEEDING OF ANIMALS, SEWAGE UTILISATION, ENSILAGE, &c. PUBLISHED 1849-1895, INCLUSIVE.

1. Agricultural Chemistry: Sheep Feeding and Manure, Part I. (With Tabular Appendix in 1856.) (Jour. Roy. Ag. Soc. Eng., vol. x., p. 276) 1849
2. Report of Experiments on the Comparative Fattening Qualities of Different Breeds of Sheep; Hampshire and Sussex Downs (Jour. Roy. Ag. Soc. Eng., vol. xii., p. 414) .. 1851
3. Report of Experiments on the Comparative Fattening Qualities of Different Breeds of Sheep—Cotswolds (Jour. Roy. Ag. Soc. Eng., vol. xiii., p. 179) 1852
4. On the Composition of Foods in relation to Respiration and the Feeding of Animals (Report of the British Association for the Advancement of Science for 1852—Belfast Meeting) 1852
5. Agricultural Chemistry: Pig Feeding (Jour. Roy. Ag. Soc. Eng., vol. xiv., p. 459) .. 1853

6. On the Equivalency of Starch and Sugar in Food (Report of the British Association for the Advancement of Science for 1854—Liverpool Meeting) 1854
7. Experiments on the Comparative Fattening Qualities of Different Breeds of Sheep—Leicesters and Cross-breeds (Jour. Roy. Ag. Soc. Eng., vol. xvi., p. 45) 1855
8. On the Sewage of London (Journal of the Society of Arts, March 7, 1855) 1855
9. Letter on the Utilisation of Town Sewage (from the Report ordered by the House of Commons to be printed, Aug. 3, 1857. Appendix xii., p. 477) 1857
10. Experimental Inquiry into the Composition of some of the Animals Fed and Slaughtered as Human Food. Abstract (Proceedings of the Royal Society of London, vol. ix., p. 348) 1858
11. Observations on the recently-introduced Manufactured Foods for Agricultural Stock (Jour. Roy. Ag. Soc. Eng., vol. xix., p. 199) 1858
12. Experimental Inquiry into the Composition of some of the Animals Fed and Slaughtered as Human Food (Philosophical Transactions, Part 2, 1859) 1859
13. On the Composition of Oxen, Sheep, and Pigs, and of their Increase whilst Fattening (Jour. Roy. Ag. Soc. Eng., vol. xxi., p. 433) 1860
14. On the Composition of the Animal Portion of our Food, and on its relations to Bread—Abstract (Jour. Chem. Soc., vol. xii., p. 54) 1860
15. Fifth Report of Experiments on the Feeding of Sheep (Jour. Roy. Ag. Soc. Eng., vol. xxii., p. 189) 1861
16. Report of Experiments on the Fattening of Oxen at Woburn Park Farm (Jour. Roy. Ag. Soc. Eng., vol. xxii., p. 200) 1861
17. Experiments on the Question whether the Use of Condiments increases the Assimilation of Food by Fattening Animals, or adds to the Profits of the Feeder (Edinburgh Veterinary Review and Annals of Comparative Pathology, July, 1862) 1862
18. Supplementary Report of Experiments on the Feeding of Sheep (Jour. Roy. Ag. Soc. Eng., vol. xxiii., p. 191) 1862
19. The Utilisation of Town Sewage (Jour. Roy. Ag. Soc. Eng., vol. xxiv., p. 65) 1863
20. On the Chemistry of the Feeding of Animals for the Production of Meat and Manure (read before the Royal Dublin Society, March 31, 1864) 1864
21. On the Sewage of Towns (Third Report and Appendices 1, 2, and 3, of the Royal Commission. Presented to Parliament) 1865
22. Report (presented to Parliament) of Experiments undertaken by Order of the Board of Trade to Determine the Relative Values of Unmalted and Malted Barley as Food for Stock 1866
23. On the Composition, Value, and Utilisation of Town Sewage (Jour. Chem. Soc., New Series, vol. iv.; Entire Series, vol. xix.) 1866
24. Food, in its Relations to the various Exigencies of the Animal Body (Phil. Mag., July, 1866) 1866
25. On the Sources of the Fat of the Animal Body (Abstract—Rep. Brit. Ass. for 1866—Nottingham Meeting. Full paper—Phil. Mag., Dec. 1866) 1866
26. Note—On Sewage Utilisation (Proceedings of the Institution of Civil Engineers, vol. xiv., Part 3) 1876
27. On some Points in connection with Animal Nutrition (Address delivered at South Kensington in the Biological Section of the Science Conferences) 1876
28. On the Formation of Fat in the Animal Body (Journal of Anatomy and Physiology, vol. xi., Part 4) 1877
29. Supplement to former Paper entitled—"Experimental Inquiry into the Composition of some of the Animals Fed and Slaughtered as Human Food"—*Composition of the Ash of the Entire Animals, and of certain Separated Parts.* (Abstract—Proc. Roy. Soc., vol. xxxv. Full Paper—Philosophical Transactions, Part 3, 1883) 1883
30. Experiments on Ensilage conducted at Rothamsted, Season 1884-5 1885
31. The Feeding of Animals, for the Production of Meat, Milk, and Manure, and for the Exercise of Force (Jour. Roy. Ag. Soc. Eng., vol. vi., t.s., part I., 1895) 1895