

NORFOLK
AGRICULTURAL STATION.

— 11011 —
Guide to Experiments.



CONDUCTED AT THE
Station Farm, Little Snoring,
1913-14.

— 11011 —
ANNUAL REPORT.
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NORFOLK AGRICULTURAL STATION.

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Honorary Secretary :

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32 Prince of Wales Road, Norwich.

Farm Manager :

A. C. DAWSON,
Little Snoring, Fakenham.

— : - o - : —

*Postal and Telegraphic Address
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Dawson, Little Snoring, Fakenham.
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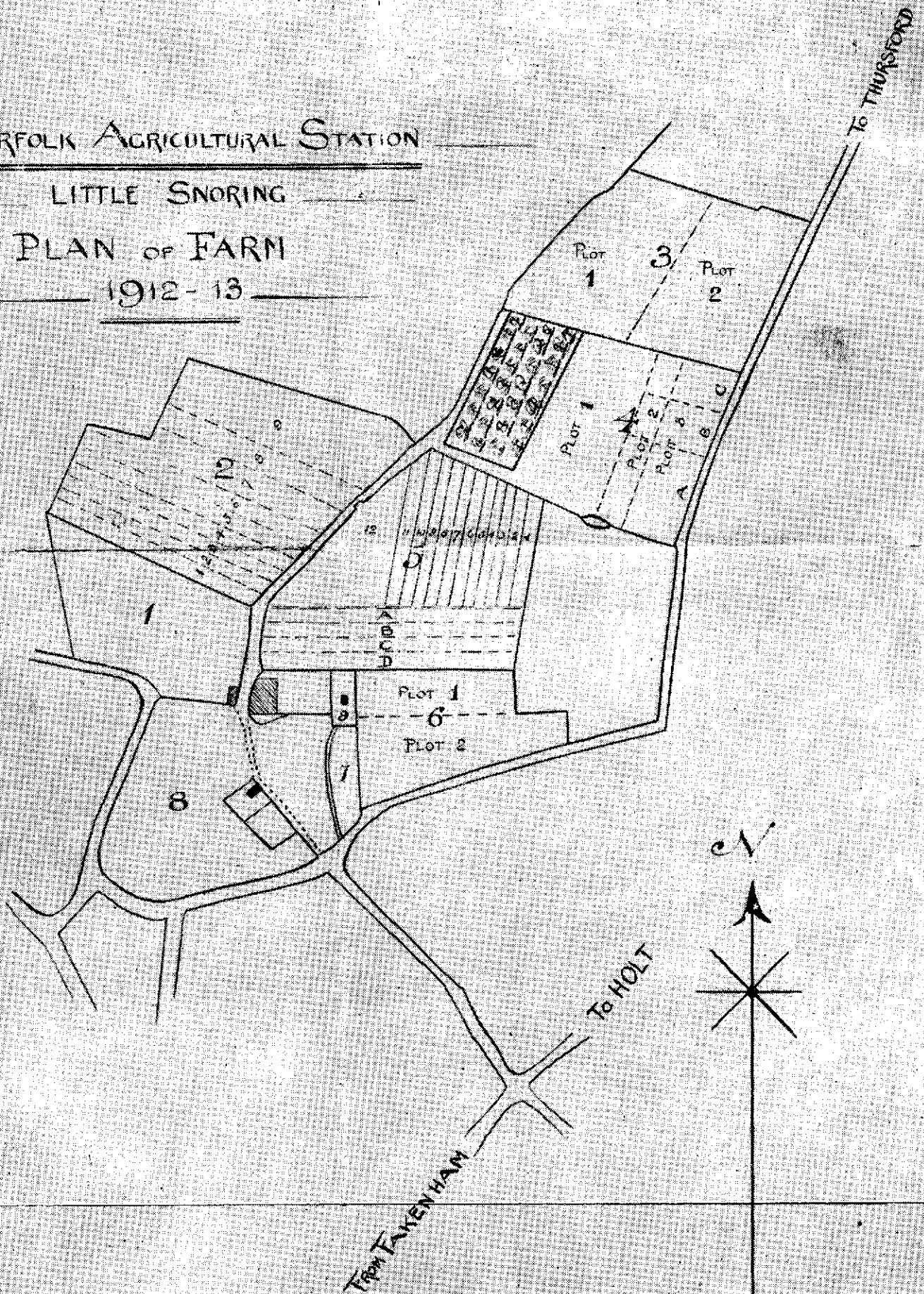
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NORFOLK AGRICULTURAL STATION

LITTLE SNORING

PLAN OF FARM

1912-13



NORFOLK AGRICULTURAL STATION.

LITTLE SNORING, NORFOLK.

SCHEDULE.

No.	Quantities.			Cropping and Manuring for the Year 1912-1913.
Field.	A.	R.	P.	
1	13	1	14	NEW LAYER.
2	21	3	14	WHEAT.
				a. r. p.
				Plot 1. 2 0 0 Rivett's.
				" 2. 2 0 0 Coronation.
				" 3. 2 0 0 Browick.
				" 4. 2 0 0 Champion.
				" 5. 2 0 0 Standard Red.
				" 6. 2 0 0 Sensation.
				" 7. 2 0 0 Square Head's Master.
				" 8. 2 0 0 Dreadnought.
				" 9. 3 0 20 Little Joss.
3	18	3	11	OATS AND SWEDES.
				a. r. p.
				Plot 1. 8 0 0 Abundance Oats.
				5 Cwt. of No. II. Oat manure per acre.
				" 2. 8 2 0 Purple King Swedes.
				4½ Superphosphate ½ cwt. bone per acre.
4	17	1	36	OLLAND, OATS AND BARLEY.
				a. r. p.
				Plot 1. 8 0 0 Olland.
				" 2. 3 0 0 Abundance Oats.
				5 cwt. of No. II. Oat manure per acre.
				" 3. 5 0 0 Pedigree Archer (own Stock).
				4 cwt. No. II. Barley manure per acre.
				Small Seeds Plots 2 and 3.
				" A. 4 0 0 Provence Lucerne, 30 lbs. per acre.
				" B. 2 0 0 Small Seeds, Modification of Bankfield 1900, per acre:—
				6 lbs. Tall Oat-like Grass.
				½ " Golden Oat Grass.
				14 " Cocksfoot.
				6 " Tall Fescue.
				3 " Italian Rye Grass.
				1 " Rough Stalk Meadow.
				3 " Chicory.
				8 " Burnet.
				½ " Yarrow.
				3 " Kidney Vetch.
				1 " Alsike.
				2 " Late Flower Red Clover.
				2 " White or Dutch Clover.
				" C. 2 0 0 Small Seeds, Inner Kainrig, per acre:—
				4 lbs. Tall Oat Grass.
				9 " Cocksfoot.
				4 " Tall Fescue.
				3 " Italian Rye Grass.
				5 " Perennial Rye Grass.
				1 " Rough Stalk Meadow Grass.
				3 " Chicory.
				6 " Burnet.
				½ " Yarrow.
				3 " Kidney Vetch.
				1 " Alsike.
				2 " Late Flower Red Clover.
				1 " White or Dutch Clover.
5	27	1	32	BARLEY, SWEDES AND MANGELS.
				a. r. p.
				Plot 1. 1 0 0 Bevan's 14/107.
				" 2. 1 0 0 G. W. Cannell's Archer.
				" 3. 1 0 0 Bevan's 14/183.
				" 4. 1 0 0 F. J. Cannell's Archer.
				" 5. 1 0 0 Bevan's 14/145.
				" 6. 1 0 0 Pedigree Archer (own stock).
				" 7. 1 0 0 Bevan's 14/107.
				" 8. 1 0 0 G. W. Cannell's Archer.
				" 9. 1 0 0 Bevan's 14/183.
				" 10. 1 0 0 F. J. Cannell's Archer.
				" 11. 1 0 0 Bevan's 14/145.
				" 12. 5 3 0 Pedigree Archer (own stock).
				" A. 2 0 0 A. I. Swedes.
				" B. 2 0 0 Giant Tankard Swedes.
				" C. 2 0 0 Garton's Keep Well Swedes.
				Manuring:—4½ cwt. of Superphosphate ½ cwt. Bone per acre.
				" D. 2 2 0 Red Intermediate Mangels.
				Manuring:—3 cwt. Kainite, 10 loads farmyard manure, and 1 cwt. Nitrate of Soda, after singling, per acre.
6	9	1	34	MANGELS AND SUGAR BEET.
				a. r. p.
				Plot 1. 2 2 0 New Century Mangels
				Manuring:—3 cwt. Kainite, 10 loads farmyard manure, and 1 cwt. Nitrate of Soda, after singling, per acre.
				Plot 2. 5 0 0 Sugar Beet.
				The land was subsoiled 15 inches deep, drills 18 inches apart, manure sown per acre:—1 cwt. Superphosphate, 1 cwt. Sulphate of Potash, 1 cwt. Sulphate of Ammonia ploughed in, 4 cwt. Peruvian Guano harrowed in before sowing, and 1 cwt. Nitrate of Soda sown in two dressings after singling.
7	0	3	13	LONG RED MANGELS.
				Manuring:—10 loads farmyard manure, 3 cwt. Kainite, and 1 cwt. Nitrate of Soda, after singling.
8	20	0	17	Farm House and Garden Premises, Stackyard and Home Meadow.
9	0	3	0	Cottages and Gardens.
	2	0	31	Roads.
132	1	2		

Norfolk Agricultural Station.

FIFTH ANNUAL REPORT.

Presented at the Annual General Meeting, to be held in Norwich on February 14th, 1914.

The Executive Committee have the pleasure to submit their fifth Annual Report.

The fourth Annual General Meeting was held in Norwich on January 25th, 1913, at which the Report and Accounts for the year ended October 11th, 1912, were presented and adopted. The Executive Committee was re-elected, and the vacancies caused by the death of Sir Reginald Beauchamp, Bart., and the resignation of Mr. Horace Sheringham were filled by the election of the Earl of Leicester and of Mr. W. J. Eagling, both of whom have kindly consented to serve.

There have been three meetings of the Committee, one of which was held at the Station and two at Norwich, and the Annual Inspection of the Farm took place on August 7th, 1913.

There were a large number of supporters present, and they had again to thank the President, Mr. Sancroft Holmes, for very kindly providing them with lunch.

The farm was carefully inspected under the guidance of Professor Mackenzie, of Cambridge University, who gave a short and interesting lecture at each of the experimental plots. It was universally acknowledged that the farm generally had greatly improved in appearance since the last and previous visits, and thanks are due to the two members of the Executive Committee, Mr. Henry Overman and Mr. H. V. Sheringham, for their careful supervision and successful management throughout the year. The Committee also desire to place on record their appreciation of the services of the Resident Superintendent, Mr. A. C. Dawson, who has loyally carried out the instructions of the Committee.

In their last Report the Committee gave an account of what had taken place with the Government Development Commissioners, and they have now the pleasure to inform their supporters that the work of the Station has so far met with approval that the following grants have been made:—Towards the cost of the Threshing Plant £63 11s. 6d., Dutch Barns £64 19s., and a Maintenance Grant of £100. The last was contingent upon a similar sum having been received during the year in respect of donations and annual subscriptions.

The Committee take the opportunity of thanking their friends for the generous response to the appeal made to them, and of expressing the hope that this support will be continued, and even increased, in the future, as they feel confident the work being carried on by the Station is well worthy of it.

The Accounts are appended herewith, and there will follow later full particulars of the various experiments carried on at the Station during the year, compiled by Professor Wood and his colleagues of the Cambridge University Department of Agriculture, to whom are due the heartiest thanks of all who are interested in the Station.

The following is an account of what have been undertaken during the year, with the results arrived at, and has again been compiled by Professor Wood, to whom a hearty vote of thanks was given by the Subscribers present at the Annual General Meeting.

BULLOCK FEEDING EXPERIMENTS.

In consideration of a Government grant paid through the Cambridge University, which defrayed the cost of foods, etc., to the amount of £20, the Executive Committee agreed to allow the bullocks fed at Snoring during the winter of 1913-14 to be used for a scientific experiment on somewhat novel lines.

Two lots of 10 bullocks, of practically equal weights, were selected for the experiment. Each lot were given a small ration of mixed linseed and common cotton cake, and chaff, just sufficient to provide for maintenance, *i.e.*, to keep the animals from losing weight. These quantities were calculated from the accepted figures for maintenance rations for bullocks of known weights.

One lot received in addition 1 bushel (46 lb.) of swedes, the second lot 3 bushels (138 lb.) of swedes.

The experiment lasted for 28 days, during which period Lot 1 consumed 12,600 lb. of swedes and made a total live weight increase of 339 lb.; and Lot 2 consumed 37,800 lb.

swedes, making a total live weight increase of 704 lb. From these figures it appears that the increase in live weight produced by 100 lb. swedes was for Lot 1, 2.7 lb., for Lot 2, only 1.9 lb.

By experimenting in this way it is possible to get a direct measure of the fat-producing value of the swedes. It is hoped to use the same method for finding the fat-producing value of other foods. It is notable that a small ration of swedes gave a much better proportionate return in live-weight increase than a large ration. This is only another instance of the well-known fact that 2 cwt. of manure gives much less than twice as much increase in crop as 1 cwt.

After the above experiment was finished, the whole of the bullocks were put on a full fattening ration, and sold at Fakenham Market early in March.

Just before they were sold they were utilized for another scientific experiment which is likely to lead to important results. It is well-known that every animal uses part of its food to keep itself warm, and stores the rest as increased live-weight. It is also known that the amount of live-weight produced from a given weight of food varies in different animals.

For instance, among a lot of bullocks all on the same diet it is common to find good doers which put on over 2 lb. live-weight increase per head per day, and, unfortunately, there are generally one or two bad doers which scarcely gain at all.

The balance of food not used to produce increased live-weight is turned into heat, most of which leaves the animal through the skin. It should therefore be possible to spot good doers by their cool skins, whilst bad doers should have hot skins. The temperatures of the skins of 18 of the bullocks were measured by an electrical arrangement, when it was found that the skins of the four worst doers which had gained less than 1 lb. per head per day during the last 3 weeks were, on the average, 3° F. hotter than the skins of the 8 best doers which had, during the last 3 weeks, made daily gains of over 2½ lb.

per head. This suggests that it may be possible to judge of the fattening capacity of an animal by the temperature of its skin.

Further experiments are in progress at Cambridge, and it is hoped that important results may be obtained.

BARLEY.

The experiments were a continuation of those of the last two years. The varieties included three pedigree strains of Archer and three new hybrids produced by Mr. E. S. Beaven.

The results of the three years are given below:—

VARIETY.	1911 Coombs.	1912 Coombs.	1913 Coombs.	Average Coombs.
Beaven's Pedigree Archer ..	12.2	11.2	12.0	11.8
Beaven's Hybrid 14/183	12.0	12.0	11.0	11.6
" " 14/107	12.0	12.1	10.5	11.5
" " 14/145	11.7	11.3	11.5	11.5
F. J. Cannell's Pedigree Archer	9.7	11.0	9.4	10.0
G. W. Cannell's " "	10.5	9.3	9.6	9.8

There seems to be no doubt that Beaven's Pedigree Archer is a really reliable strain. It has given the highest average yield per acre, and is generally admitted to be distinctly less coarse and rather better in colour than other strains of the same variety.

The three hybrids all result from a cross between Archer and a strain of Goldthorpe, known as Plumage. They all yield about the same. For various reasons Nos. 14/183 and 14/107 have been discarded. No. 145, under the name of Plumage Archer, is now on the market. It is a wide-eared barley, with long straw, which stands up well, and does not lose its ears like most of the wide-eared Goldthorpe types. It is suitable for good soils in high condition, but does not do so well as Archer on light land. Its grain is large and bright coloured.

WHEAT.

During the last seven years, 18 varieties of wheat have been tried. The actual yields obtained are given in the following table. The varieties grown have varied from year to year, the bad ones being discarded, and new ones tried as the experiment continued. The average crops in the different years have varied greatly, so that it is impossible to make a just comparison by averaging the actual yields, as this would give an unfair advantage to the varieties which had been tried in good yielding years only, and would handicap hopelessly those varieties which had only been grown in years when the average yield was low. In order to avoid this difficulty, the following table has been calculated by correcting each result so that the average yield each year is brought up or down to 40 bushels per acre. It is thus possible to average all the results without the effect of varying seasons interfering. The following table gives the results calculated in this way. Of the varieties that have been tried in several seasons, Little Joss, Sensation, Browick and Square Head's Master are all reliable yielders, Little Joss being about a coomb an acre better than any of the others.

VARIETY.	ACTUAL YIELDS IN BUSHELS PER ACRE.						
	1909	1910	1911	1912		1913	1914
				After Clover.	After Roots.		
Treasure	41	—	26½	—	—	—	—
Sensation	46	—	37½	21½	—	36	43
Red Marvel	44	25	28	—	—	—	—
White Marvel	40	—	—	—	—	—	—
Biffen's No. 1	41	34	37	—	—	—	—
Biffen's Bargoyn's Pife	33	—	—	—	—	—	—
Biffen's Little Joss	—	42	41½	33	32	52	47
Carter's Stand-up	37	—	—	—	—	—	—
Square Head's Master	—	33	41½	22	—	44½	45
Browick	—	38	43	21	32	46	44
Standard Red	—	—	—	24½	32	45	44
Wilhelmina	—	—	—	18	28	—	—
Coronation	—	—	—	16	30	42	—
Dreadnought	—	—	—	21	42	44	—
Champion	—	—	—	—	—	44	37
Rivett	—	—	—	—	—	36	—
Victor	—	—	—	—	—	—	42
Essex Conqueror	—	—	—	—	—	—	45

VARIETY.	BUSHELS PER ACRE.							
	AVERAGE OF EACH YEAR TAKEN AS 40.							
	1909	1901	1911	1912		1913	1914	Average.
After Clover.				After Roots.				
Biffen's Little Joss...	—	50	46	60	38	48	44	47½
Dreadnought	—	—	—	38	50	40½	—	43
Sensation	46	—	42	39	—	33½	40	40
Browick	—	45	48	38	38	42½	41	42
Square Head's Master	—	39	46	40	—	41½	42	41½
Standard Red	—	—	—	45	38	41½	41	41
Wilhelmina	—	—	—	32	33	—	—	32½
Coronation	—	—	—	29	35	39	—	34
Treasurer	41	—	29	—	—	—	—	35
Red Marvel	44	30	31	—	—	—	—	35
White Marvel	40	—	—	—	—	—	—	40
Biffen's No. 1	41	40	41	—	—	—	—	41
„ Burgoyne's Fife	33	—	—	—	—	—	—	33
Carter's Stand-Up ...	37	—	—	—	—	—	—	37
Champion	—	—	—	—	—	40½	34	37
Rivett	—	—	—	—	—	33½	—	33½
Essex Conqueror ...	—	—	—	—	—	—	42	42
Victor	—	—	—	—	—	—	39	39

SUGAR BEET.

Five acres of sugar beet were grown during the summer of 1913. The total yield of the 5 acres was 72 tons 16 cwt., which were carted to Fakenham Station, and sent thence by train to the factory at Cantley.

The nett weight of washed roots paid for by the factory was only 52 tons 3 cwt. 2 qrs. 24 lb., or 10 tons 8 cwt. per acre. There was, therefore, on the average, a loss of 28 per cent., or 32 lb. in every hundredweight. This loss varied in the case of the different deliveries from 26 to 38 lb. per cwt.

Below are set out the more important figures for the sugar beet crops of 1912 and 1913:—

	1912.	1913.
Gross yield per acre delivered	19 tons	14 tons
Nett yield paid for by factory	13 tons	10½ tons
Payment by factory	£11 11s.	£9 9s.
Total cost of labour and manure	£12	£10 10s.

By allowing a small sum per acre for the value of the tops, the crop appears to have paid back the cost of cultivation, but to have left nothing towards rent, rates, taxes, &c.

It is not certain that an ordinary root crop pays better than this, and the question is one which can only be settled by a careful economic enquiry. In the meantime, it is a point worth considering by many farmers that by growing sugar beet on part of the root break it is possible to get back in ready money the cost of all the cultivation, instead of waiting while the bullocks and sheep are fattened and sold.

T. B. WOOD.



Norfolk Agricultural Station.

LIST OF DONATIONS.

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Edward VII.	52	10	0	Carr, W.	10	10	0
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Buxton, Sir T. Fowell ...	5	0	0	de Pass, J.	2	2	0
Buxton, Geoffrey F.	5	0	0	Jex-Blake, very Rev. T. W., D.D.	2	2	0
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Crisp, J. E.	5	0	0	Sutton, Lincolne	2	2	0
Cubitt, E. G.	5	0	0	Underdown, H.	2	2	0
Custance, Col. C. B.	5	0	0	Fletcher, B. E.	2	0	0
Digby, Algernon	5	0	0	Sewell, P. E.	2	0	0
Dunell, Owen R.	5	0	0	Bird, Rev. M. C. H.	1	1	0
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				Ward, E. F.	1	0	0
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Bacon, N. H. ...	5	0	0	Hoare, Sir Samuel, Bart.	1	1	0
Colman, Messrs. J. & J.	5	5	0	Le Strange, Hamon ...	1	0	0
Gurney, John Hy. ...	5	0	0	Digby, Algernon ...	1	0	0
*Gurney, Sir Eustace				Johnson, William ...	1	0	0
Life Membership Sub-				Mann, Sir Edward, Bart.	1	0	0
scription ...	25	0	0	Stubbs, Ismay ...	1	0	0
Cannell, G. W., & Sons	4	11	10	Day, H. A. ...	1	1	0
Bright, Rev. J. T., D.D.	2	2	0	Kidner, T. ...	1	1	0
Forrester, J. B. ...	2	2	0	Littlewood, H. ...	1	1	0
Horsfall, R. E. ...	2	2	0	Buxton, Noel, M.P. ...	1	0	0
Sewell, P. E. ...	2	2	0	Hare, Sir T. L., Bart. ...	1	0	0
Soames, A. W., M.P. ...	2	2	0	Gurney, Robert ...	1	0	0
Overman, H. and Brother	2	0	0	Sapwell, B. B. ...	1	0	0
Champion, W. N. L. ...	2	0	0	Sheringham, H. V. ...	1	0	0
				Littlewood, C. J. ...	0	10	6

