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Manchester and Salford Sanitary Association.

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MANCHESTER AND SALFORD SANITARY ASSOCIATION.

ANNUAL REPORT

OF THE

COMMITTEE

OF THE

MANCHESTER AND SALFORD

SANITARY ASSOCIATION,

BEING

A Summary of their Proceedings for the Year 1873.



MANCHESTER:

POWLSON AND SONS, PRINTERS, 26, SOUTH KING STREET.

1874.

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1871

A Summary of their Proceedings for the Year 1871

MANCHESTER

JOHN AND SON, PRINTERS, 27, NORTH KING STREET

1871

MANCHESTER AND SALFORD SANITARY ASSOCIATION.

Committee and Officers for the Year 1874.

President:

The Right Rev. The LORD BISHOP OF MANCHESTER.

Vice-Presidents:

The Worshipful the MAYOR of MANCHESTER.

The Worshipful the MAYOR of SALFORD.

The Very Rev. the DEAN of MANCHESTER.

MARQUIS of HARTINGTON.

Hon. ALGERNON EGERTON, M.P.

Sir E. ARMITAGE.

Sir JAS. L. BARDSLEY, M.D.

Sir THOMAS BAZLEY, Bart., M.P.

JOHN CHEETHAM, Esq.

Sir W. FAIRBAIRN, Bart., F.R.S.

A. H. HEYWOOD, Esq.

Sir JOSEPH WHITWORTH, Bart.

Treasurer:

OLIVER HEYWOOD, Esq.

Chairman:

DANIEL NOBLE, M.A., M.D., F.R.C.P., Ardwick Green.

Deputy-Chairman:

ARTHUR RANSOME, Esq., M.A., M.D.

Committee:

G. H. ATWELL, Esq.

Rev. ST. V. BEECHY, M.A.

Mr. Alderman BOOTH.

GEO. BOWRING, Esq.

S. M. BRADLEY, Esq.,

F.R.C.S.

J. A. BREMNER, Esq.

Dr. BRIERLEY.

C. E. CAWLEY, Esq., M.P.

M. Inst. C.E.

JOHN CHADWICK, Esq.

JAS. COTTINGHAM, Esq.

C. ESTCOURT, Esq., F.C.S.

Mr. Alderman FLETCHER.

W. J. GARNETT, Esq.

FRANCIS GREG, Esq.

Mr. Alderman KING.

C. H. KNIGHT, Esq.

J. LASCELLES, Esq., B.A.

Dr. LEDWARD.

Dr. LEECH.

Rev. T. W. M. LUND, M.A.

A. G. McBEATH, Esq.

T. MACKERETH, Esq.,

F.R.A.S., F.M.S.

THOMAS MELLOR, Esq.,

F.R.C.S.

Dr. MORGAN.

JOHN NEWTON, Esq.

M. Inst. C.E.

R. O'GORMAN, Esq.

Dr. PEATSON.

HERBERT PHILIPS, Esq.

Professor REYNOLDS.

Dr. JOHN ROBERTS.

J. F. ROBERTS, Esq.

CHAS. ROBERTSON, Esq.

Professor ROSCOE, B.A.,
F.R.S.

Dr. SAMELSON.

Dr. SIMPSON.

A. E. SUTCLIFFE, Esq.

J. TATHAM, Esq.

Dr. THORBURN.

G. V. VERNON, Esq.,
F.R.A.S., M.B.M.S.

Dr. M. A. EASON

WILKINSON.

T. R. WILKINSON, Esq.

Mr. Councillor WILLIAMS.

G. W. RAYNER WOOD, Esq.

Honorary Secretaries:

Dr. HARDIE. | Dr. HADDON.

V. K. ARMITAGE, Esq.

Secretary and Collector.

Mr. FREDK. SCOTT.

Committee Rooms,

78, Cross Street, Manchester.

Sub-Committee on the Pollution of Air.

Dr. HARDIE.	Professor ROSCOE.
„ HADDON.	Dr. R. ANGUS SMITH.
„ LEECH.	„ SAMELSON.
H. PHILIPS, Esq.	G. W. RAYNER WOOD, Esq.
Dr. RANSOME.	

Communications for the Committee may be addressed to—

Dr. NOBLE, Chairman, Ardwick Green.

Dr. RANSOME, Deputy Chairman, 1, St. Peter's Square.

OLIVER HEYWOOD, Esq., Treasurer, St. Ann's Street.

The Honorary Secretaries, { Dr. HARDIE, King Street.
Dr. HADDON, Eccles.

OR TO

Mr. FREDK. SCOTT, Secretary, 78, Cross Street.

At the ANNUAL MEETING of the Manchester and Salford Sanitary Association, held at the Committee Rooms, 78, Cross Street, on Tuesday, July 7th, 1874.

DR. NOBLE IN THE CHAIR.

The Annual Report having been read ;

It was moved by Dr. NOBLE ; seconded by A. G. McBEATH, Esq. ;

That this Meeting cordially approving the proceedings of the Committee, as set forth in their Report, request that the said Report may be printed and extensively circulated.

Moved by Dr. HARDIE ; seconded by Dr. JOHN ROBERTS ;

That inasmuch as one of the fundamental objects of the Association is the prevention of disease, this Meeting trusts that the Committee will use every means in their power to secure all possible precautions being taken to prevent the spread of infectious disorders.

Moved by J. LASCELLES, Esq. ; seconded by J. CHADWICK, Esq. ;

That the practical efforts of the Committee to improve the condition of the poorer classes by directing attention to the sanitary laws, deserve the encouragement and pecuniary support of this Meeting and the public in general.

Moved by C. ESTCOURT, Esq. ; seconded by G. W. RAYNER WOOD, Esq. ;

That the best thanks of the Meeting be given to the President, Vice-Presidents, Committee, and Officers for the unwearied attention they have devoted to promoting the interests of this Association ; and that the following Noblemen and Gentlemen be requested to act for the ensuing year. (For the names see third page.)

DANIEL NOBLE, Chairman.

The Chair having been taken by Dr. RANSOME ;

It was moved by J. LASCELLES, Esq. ; seconded by Dr. LEECH ;

That it is desirable that the Committee be enlarged, and an additional Honorary Secretary appointed.

It was moved by Dr. RANSOME ; seconded by Dr. LEECH ;

That the thanks of the Meeting be given to Dr. NOBLE, for presiding on this occasion, and for the interest he evinces in the welfare of the Association.

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REPORT.

IN presenting their Report for the past year, the Committee have to bring before the notice of the members some facts for which they think there is just cause for congratulation, but they have also to record some serious losses.

It is satisfactory to observe that, of late, some progress has been made towards the accomplishment of those Sanitary Reforms, which were long ago pointed out by the Association as of primary importance for reducing the high death rate in this locality.

For many years past, every opportunity has been taken by the Committee of impressing on the Health authorities, and on the public, the necessity for a complete change in the mode of dealing with the refuse and sewage in Manchester and Salford.

The ill effects which must arise from the accumulation of several acres of putrifying fœcal matter in the midst of a dense population, the poisonous results due to the direct connection between interiors of houses and the sewers, have been constantly insisted upon in reports, lectures, and memorials to the civil and other authorities. By degrees the importance of these matters has been recognised, and, during the past year, the Manchester Corporate authorities have

determined to adopt plans by which the ashpit-midden system will be quite abolished, and replaced by a method of dealing with the excreta almost identical with that advocated by the Committee of this Association.

In another direction, also, progress has recently been made. Twelve years ago, a Sub-committee of the Association was appointed to investigate the extent to which adulteration of food was carried on, and its effects on health. Memorials, founded on the report of the Sub-committee, were presented to the Town Councils of Manchester and Salford respectively, urging the appointment of public analysts, and the employment of means to check adulteration, especially of the common articles of diet. Public attention has been constantly drawn to this subject, since that time, by the Committee, and at length they have the satisfaction of seeing that some steps are being taken to prevent adulteration, for, during the past year, proceedings, depending upon the reports of public analysts previously appointed, have been successfully taken, both in Manchester and Salford, against dealers who have been discovered selling impure food.

The Committee regret, however, that the Corporate bodies do not seem at present inclined fully to carry out the powers which they have for preventing adulteration; for instead of employing officers to find out cases of adulteration, they leave it for those who are imposed on to take the requisite means for the

exposure of the imposition. Few of the labouring classes, who chiefly suffer from adulteration, are likely to take the necessary steps, and until, therefore, the authorities determine to employ officers who shall exercise a proper supervision over food sold, by having analyses made from time to time, the effect of the recent appointments of analysts will be much less than it might be.

Most of the sanitary improvements which this Association pointed out as most urgent during the earlier years of its existence, have now been entered upon under the guidance of Officers of Health, whose appointment the Committee so long advocated.

Much property, unfit for habitation, has been condemned, and although very many unwholesome dwellings are still to be met with, their number is gradually getting less. Stricter supervision is kept over the lodging-houses, and overcrowding is thus to a great extent prevented. Strenuous efforts have been made to prevent the spread of infectious diseases by disinfection and isolation.

Sufficient time has not yet elapsed for a correct estimation of the results of what has already been done, for the effects of insanitary conditions on mortality do not at once cease with their removal, and it is sometimes years before the effects of sanitary improvements are fully produced, just as it is often long before sanitary defects obviously injure the health. But the following tables show that the

sanitary reforms already instituted have been attended with a reduction of the death-rate, a fact which justly encourages the hope that, before long, the mortality in this district may be greatly lessened if the proper steps are taken with vigour.

YEAR.	Total deaths from all causes	Deaths from Zymotic Diseases	* Deaths under 5 years of age.
1864 } 1865 } 1866 } 1867 } 1868 } Average Population, 461,221.	12,273 14,007 13,989 13,763 14,474	2,004 2,054 2,164 2,018 3,048	4,600 5,607 5,041 5,486 6,026
1869 } 1870 } 1871 } 1872 } 1873 } Average Population, 481,271.	12,761 12,816 14,184 12,846 13,666	1,987 1,507 1,876 1,602 1,737	5,136 5,693 5,004 6,111 6,570
Average of first 5 yrs. } (1864-1868) ... }	13,701	2,257	5,352
Average of last 5 yrs. } (1868-1874) ... }	13,254	1,741	5,702

From this table it appears that in the five years ending in December, 1873, the yearly average of deaths in Manchester and Salford was 447 less than

* The figures in this column are taken from the Registrar General's Return, which includes certain out-Districts as part of the Manchester Registration District. The other figures are taken from the Association's Returns.

in the five previous years, and since the average population in the last 5 years is greater by 20,050 than that of the previous 5 years, it seems that the saving of life has been greater than appears from the actual number of deaths registered. The table indicates too how this saving in life has been effected, for it appears that in the five years commencing 1864, the average number of deaths from infectious diseases was 516 more than the average of the five succeeding.

The diminished mortality from infectious diseases is due to the fact that most of the sanitary reforms hitherto carried out in this district, have been directed towards checking their spread, and although the measures adopted have been but partial, although, too, the Corporation have not yet fulfilled their undoubted function of providing proper hospital accommodation for infectious diseases, still a distinct lessening of the death rate has been produced.

The Committee trust that, having advanced thus far with such success, the Corporate bodies will shortly see the advisability of providing in various parts of the town, accommodation for the isolation of infectious disorders.

If we turn to the mortality in young children, we find that no amelioration has taken place indeed, the mortality would seem to have slightly increased. But until the past year, hardly anything has been done to decrease the infantile mortality, for the means so far taken to prevent the spread of infection have not

been of a character likely to influence the death-rate among very young children, to any marked extent. As pointed out in a former report, the children of the poor, in this locality, have specially suffered by methods hitherto adopted of dealing with the excreta. From birth, exposed to the miasms of the ashpit and the sink, they have been slowly poisoned, or prepared to die from their first attack of disease.

The mode of life of many of the poor, both as regards occupation and intemperance, has been undoubtedly an important factor in infantile mortality, but the Committee feel assured, that when the reform with regard to the mode of dealing with the excreta is carried out, an important cause of high infant mortality will have been removed.

On this account, especially, the Committee greatly regret that the Salford Corporate authorities are showing less vigour in carrying out plans for the alteration of the present system, than their neighbours in Manchester.

The health of Manchester and Salford during the past year has not been satisfactory, the deaths numbering 820 more than in the preceding year, and the death rate having increased from 27·2 to 28·7. Measles and Scarlatina have contributed largely to the mortality. Last year 544 died from these two ailments, this year they have caused 1,211 deaths, an increase of 667. An epidemic of Measles broke out at the beginning of December, 1872, and was

extremely fatal during the first two quarters of 1873. During the last two quarters there was a marked decrease of deaths from this cause. Scarlet Fever continued prevalent and fatal throughout the year, but caused most deaths in the last quarter. Altogether, it destroyed 639 individuals. It is probable, that prior to the Fever, most of these were healthy and strong children, since Scarlet Fever, unlike Measles and Whooping Cough, seems to carry off the strong as readily as the weak. It is sad to think that so many lives should be sacrificed to a disease, the ravages of which might certainly be much reduced, if the Corporate bodies would act up to the powers which they possess, and provide means for the isolation of cases of Fever.

In Small-Pox and Whooping Cough there has been a decrease as regards fatality. Only 22 deaths from Small-Pox were registered during the year, of which 20 occurred during the first six months. Whooping-Cough too has been much less fatal, the epidemic which prevailed in 1872 having passed away.

The gradual decline of mortality from Fever, which has been observed since 1868, has continued through this year, though the diminution is very slight, 315 deaths from this cause having been registered in 1873, against 328 in 1872.

Diarrhoea and Diseases of the Chest have been somewhat more fatal during the past year than in 1872, but not markedly so,

The following table shows the mortality from infectious and other diseases in 1873 :—

*Quarterly Return of Deaths in Manchester and Salford
for the year 1873.*

DISEASES.	March.	June.	Sept.	Dec.	Year.
Small Pox	15	5	1	1	22
Measles	238	247	59	28	572
Whooping C'gh.	53	47	31	58	189
Scarlatina	168	123	137	211	639
Fever	67	77	77	94	315
Diarrhoea	55	80	779	105	1,019
Dis. of Lungs..	1,088	1,003	623	976	3,690
Other causes ..	1,969	1,827	1,750	1,674	7,220
Total Deaths ..	3,653	3,409	3,457	3,147	13,666
Deaths under } 5 years. }	1,641	1,566	1,969	1,394	6,570
Deaths under } 1 year }	1,012	965	1,473	840	4,290
Average death } rate	31'3	28'9	28'7	26'2	28'7

The weekly returns of sickness and mortality, which for twelve years were issued without a break, have been this year modified. When these returns were commenced, they were the only statistics of the kind collected in this locality, but the Medical Officers of Health for Manchester and Salford have, within the last few years, published weekly *death* returns of their respective districts, similar to those supplied

by the Association, and have thus occupied part of the ground hitherto covered by the Association. The expense of printing the returns has also, for some time past, absorbed a large proportion of the funds of the Association, and limited its operations in other directions. Under these circumstances the Committee have arranged to publish weekly in the daily papers, in a tabular form, a summary of the returns of sickness, combined with the death returns of Manchester and Salford, which Messrs. Leigh and Tatham have kindly undertaken to furnish. The sick returns are collected and tabulated as heretofore, and may be consulted by members, contributors, and others interested in sanitary matters, at the Office of the Association, in Cross Street. The summary contains a statement of the most important facts to be gathered from the returns, and slips are sent to those contributors who desire to possess them. The Committee wish to take this opportunity of thanking the following gentlemen connected with the various public institutions, &c., of the district, to whose kindness they are indebted for their returns:—

Mr. R. M. MANN.
 „ J. BROADBENT.
 „ EDWARD MEACHAM.
 „ T. PRICE.
 „ OCTAVIUS DEAN.
 „ J. WESTMORLAND.
 „ W. A. PATCHETT.
 „ P. TYTLER.
 „ B. ADDY, M.B.
 „ H. RUNCORN.
 „ R. HUGHES.
 „ W. J. SINCLAIR.
 „ W. A. RENSHAW.
 Dr. J. OGDEN FLETCHER.
 „ J. C. PEATSON.

Dr. A. C. CLARKE.
 „ T. M. JOHNSON.
 Mr. J. S. ORCHARD.
 „ J. H. BONSER.
 „ C. H. BRADDON.
 Dr. S. WOODCOCK.
 „ ALEX. WILSON.
 Mr. H. M. WILLIAMSON.
 „ J. WALKER.
 „ JOSEPH FOSTER.
 „ D. WALSH.
 Dr. S. DALY.
 „ T. W. RHODES.
 „ J. WATSON.

They feel that not only the Association, but the inhabitants generally of this locality, owe a debt of gratitude to them for the time and trouble which they expend gratuitously in the cause of sanitary science.

A highly interesting and instructive series of Charts, showing the fluctuations of the more important diseases in Manchester and Salford for 10 years, have been prepared by Dr. Ransome from the Weekly Returns.

With the exception of the publication of the weekly returns in a separate form, the work of the Association has been carried on as usual.

The following lectures have been delivered :—

1873.	LECTURER.	SUBJECT.	PLACE.
Dec. 11..	A. Ransome, Esq., M.D., M.A.....	<i>Seeds of Disease</i>	Hulme Town Hall.
1874.			
Feb. 13..	S. M. Bradley, Esq., F.R.C.S....	<i>Epidemics: past, present, and to come</i>	St. Matthew's School, Ardwick.
„ 20..	W. H. Barlow, Esq., M.D.	<i>Fevers: how they are spread, and how they may be restrained</i>	St. Oswald's School, Collyhurst.
„ 27..	John M. Fox, Esq., M.R.C.S.	<i>The Great Plague of London, and some of its Sanitary lessons</i>	Salford Town Hall.
Mar. 12..	A. Ransome, Esq., M.D., M.A.....	<i>Air and Water, the great purifiers</i>	St. Philip's School, Bradford Road.
„ 19..	J. Brassey Brierley Esq., M.D.....	<i>The diet of Children in Health and Disease</i>	St. Stephen's School, City Road.
„ 31..	Professor Arthur Gamgee, M.D., F.R.S.	<i>Food and Work</i>	Chorlton Town Hall.
Apl. 14..	T. Wemyss Rhodes Esq., M.D.....	<i>What we breathe</i>	St. Andrew's School, Ancoats.

The Committee hope that, in future, owing to the decrease of expenditure consequent upon the cessation of the issue of a weekly report, there will be more funds at their disposal to expend on the spread of Sanitary knowledge amongst the working classes, by lectures, tracts, and other means of instruction.

A Sub-committee has been appointed to collect facts bearing on the extent and effects of the pollution of the atmosphere in this town by chemical and other works, in order that the Association may take such steps as may lead to improved legislation, and promote a purer condition of the air in large towns.

The attention of the Committee has been directed to the conduct of sanitary legislation generally, and especially to the effects of recent enactments. An important paper on this subject was read before a combined meeting of the Association and the Statistical Society, by Mr. J. Lascelles, Barrister-at-Law, which has since been published by the Association.

The Committee deeply regret that they have this year to record the loss of several valuable members of the Association. The death of Mr. Thomas Turner, who was one of its founders, and chairman of the Committee for 15 years, and up to the time of his death never ceased to take a most lively interest in all its work, has deprived the Association of one of its ablest and most energetic leaders. That Mr. Turner should have spent so much time and pains in endeavouring to benefit his fellow-townsmen, by improving the

sanitary condition of the locality, is assuredly not the least praiseworthy of those many good works for which his memory will be long revered.

The Rev. Canon Richson, who, with Mr. Turner, was one of the founders of the Association, has also been removed by death. For some time past, failing health prevented him from taking any active part in the work of the Association, but in years gone by, when sanitary workers were fewer than they are now, and when less interest was taken in matters pertaining to health, he devoted himself to awakening the public mind to the necessities of sanitary reform, and to his efforts are due many of those important improvements which have taken place in the sanitary condition of Manchester and Salford.

Another death the Committee have also deeply to deplore. Dr. Moffat accepted the post of Honorary Secretary to the Association in August, 1873, but died within six months of his appointment. His early death has deprived the Association of a colleague whose earnestness and ability would have been of the greatest service in aiding the cause of sanitary reform.

The Committee propose that, in future, an additional function shall be performed by the Association.

Since it was first formed many changes have taken place in the distribution of population, and in sanitary legislation. The population in the

districts surrounding Manchester and Salford has grown with extraordinary rapidity, and, as is often the case under such circumstances, without proper supervision. Within the last five years sanitary authorities and Officers of Health have been appointed, and in those districts are now working independently of each other; and though on the same general principles, still with unbounded latitude with regard to the way in which those principles are carried out.

Now it is manifestly desirable that the different Officers of Health, in and around Manchester, should both know what is being done in contiguous districts, and that they should work to some extent in the same direction, at least so far as the requirements of the several localities will allow. The Committee propose that, in future, the Association shall form a centre, where the different Health Officers in and around Manchester and Salford should be able to meet and compare experiences and views with regard to the best method of dealing with the varying conditions opposed to health which are met with in the several localities, in order that, when necessary, they may agree upon some united plan of action.

The question as to what is to be done to alter the disgraceful state of the streams in this locality, has long occupied the attention of the Sanitary Association, and still presses for a solution.

It is very desirable that the different Sanitary

authorities should determine as to the necessity for providing for the isolation of infectious diseases, for the means taken for this purpose by one district, might be in part defeated owing to the neglect of all precautions in a neighbouring one.

The means to be taken to mitigate the contaminated condition of the atmosphere require to be considered generally, since its results affect the health of very large areas.

These and other subjects, such as the provision of proper cottage dwellings and the sanitary condition of manufactories of all kinds, will yet require much attention, and the Committee hope, that by investigating these subjects in conjunction with the Officers of Health in and around Manchester, they may be able in time to show forth, to the satisfaction of the public, the best way of dealing with them.

The Committee have to regret that the financial position of the Association has been rendered still more unsatisfactory, owing to the defalcations of the late Collector, who appropriated to his own uses the money he had collected for this and several other institutions. As he ran away before legal proceedings could be taken, but little of this money could be recovered. The Committee have now secured the services of a most efficient Secretary, who has given satisfactory guarantees.

The Committee are endeavouring, by reducing the expenses of the Association, to make the income

balance the expenditure. They have received, with very great pleasure, a donation of £10, which has been sent by Dr. Armistead, late Honorary Secretary to the Association. Owing, however, to several causes, such as death, change of residence, &c., the income has been seriously reduced within the past year or two, and as the Committee are thereby compelled to limit their operations, they appeal to the public for increased support, to enable them to carry on vigorously a work which has already been productive of so much definite good, and which they feel assured is requisite, in order that the excessive mortality of this district may be brought down to a more normal standard.

The Treasurer in Account with the Manchester and Salford Sanitary Association,

Dr.

JANUARY 1st TO DECEMBER 31st, 1873.

Cr.

1873.		1873.	
£	s. d.	£	s. d.
Jan. 1.—To Balance in Bank as per Bank Book.....	2 5 0	Jan. 1.—By Balance owing to Secretary as per last Account	3 14 4
Dec. 31.—" estimated maximum Income for the Year from Subscriptions	180 0 0	" Rent and Taxes	30 9 5
" Donation from Dr. Armistead	10 0 0	" Salaries	24 19 4
" Tracts, &c., sold	0 3 10	" Collector's Commission	3 15 7
" Bank Interest	0 2 6	" Office Furniture, Alterations, &c.	11 13 0
		" Sundries, including Postages and Expenses of Lectures	6 8 11
		" Amount forfeited by late Secretary for Salary for Half-year ending June 30th, 1873	30 0 0
		" Do. Collector's Commission on estimated portion of Income collected by him	5 4 5
		" Estimated loss to the Association through the late Secretary's defalcation	48 16 8
		" Cash in Bank	25 9 6
		" " in hand	2 0 2
			27 9 8
			<u>£192 11 4</u>

ASSETS AND LIABILITIES.

1874.		1874.	
£	s. d.	£	s. d.
Jan. 1.—To Amount owing by Cartledge's Executors ...	21 12 10	Jan. 1.—By Printing	60 12 6
" Balance in Bank, &c.	27 9 8	" Rent	6 5 0
" Balance	22 8 4	" Advertising	2 19 3
		" Sundries	1 14 1
			<u>£71 10 10</u>

Examined and found correct,—

Donations in former Years.

	£	s.	d.
Atherton Miss	50	0	0
A Friend, per Dr. Morgan.....	50	0	0
A Friend, per T. Turner, Esq.	10	0	0
Barbour Robert, Esq.	10	0	0
Bazley T. Sebastian, Esq., Little Grove, East Barnet, Herts.	5	5	0
Binyon Miss, (Clifton).....	5	0	0
Brooks Samuel, Esq.....	50	0	0
Chadwick R., Esq.....	20	0	0
Callender W. R., Senior, Esq.	5	0	0
Ditto ditto second donation.....	5	0	0
Coultate E., Esq.	5	0	0
Ellesmere the Earl of	5	0	0
Gardner Robert, Esq.	5	5	0
Gillibrand P., Esq.	5	0	0
Heywood E. S., Esq.	20	0	0
Heywood Oliver, Esq.	15	0	0
Houldsworth Henry, Esq.	10	0	0
Heywood James, Esq.	5	5	0
Heywood, Sir B., Bart.....	5	5	0
Heywood Arthur H., Esq.....	5	0	0
Jones R. Jennings, Esq.	5	0	0
Jones W. C., Esq.....	5	0	0
Manchester, the late Lord Bishop of	10	0	0
Mackintosh Messrs. C., and Co.	5	5	0
Potters and Norris, Messrs.	5	5	0
Plant James, Esq.....	5	0	0
Spatford George, Esq.	5	5	0
Schunk, Souchay, and Co., Messrs.	5	0	0
Taylor J. E., Esq.....	5	5	0
Todd and Coston, Messrs.	5	0	0
Turner J. Aspinall, Esq., M.P.	5	0	0
Watkin W. B., Esq.....	10	0	0
Wood W. Rayner, Esq.	5	0	0

DONATION IN 1873.

	£	s.	d.
Armistead William Esq., L.B.....	10	0	0

SUBSCRIPTIONS.

	£	s.	d.
Atherton James, Esq., Bridgewater-place	2	2	0
Atkinson and Gould, Messrs., 6, Mosley-street.....	1	1	0
Atwell G. H., Esq., 18, Church-street, Altrincham	1	1	0
Barbour, Messrs. R., and Brother, Aytoun-street.....	2	2	0
Behrens Messrs. S. L., and Co., 22, Oxford-street	2	2	0
Bellhouse Messrs. Jas. and W., Mynshull Mills, Old Garratt	2	2	0
Brooks William Cunliffe, Esq., M.P., the Bank, King-st. ...	2	2	0
Butterworth and Brooks, Messrs., Charlotte-street.....	2	2	0
Bank of England, King-street	1	1	0
Bannerman J. A., Esq., 33, York-street	1	1	0
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