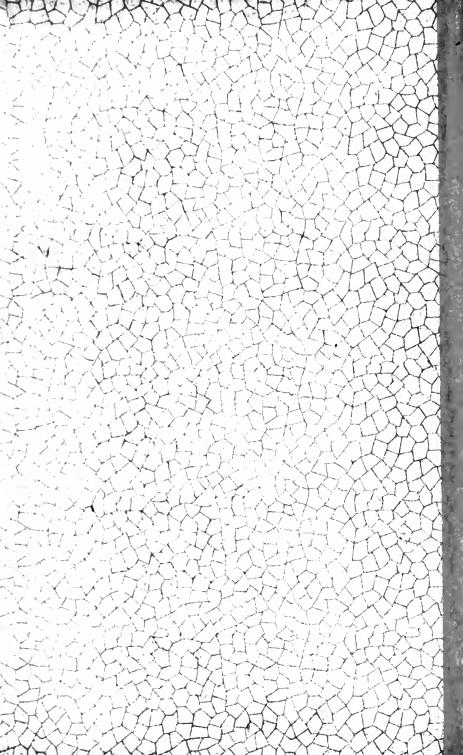
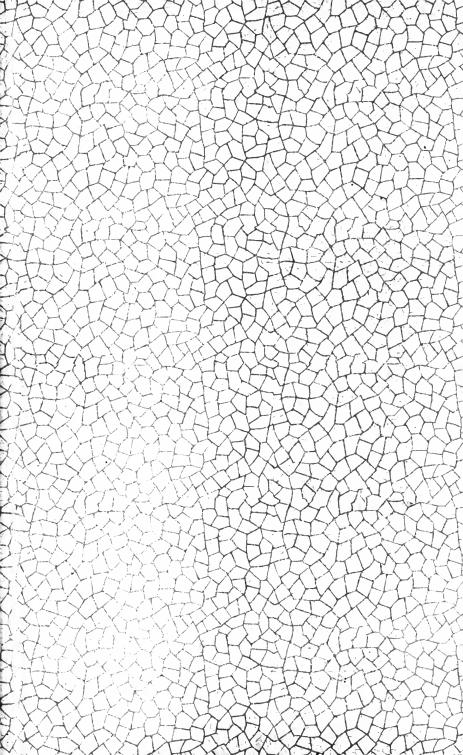
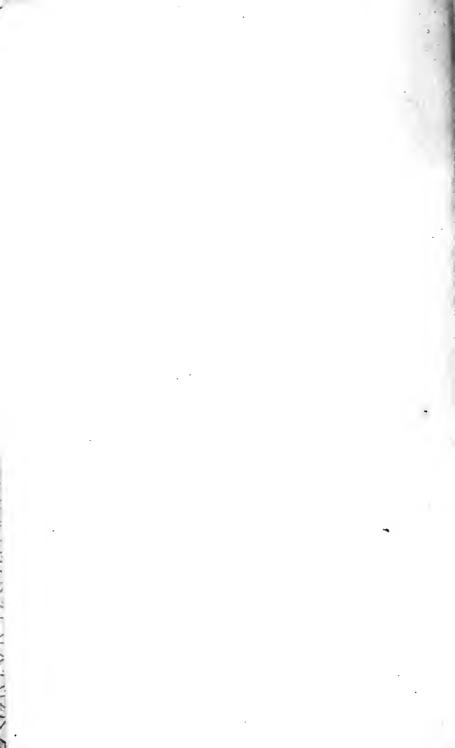
THE CO-OPERATIVE WHOLESALE SOCIETIES LIMITED

1 NU 4 L 1894







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AUSTRALIA SHOWING ROUTES TO BRITISH POSSESSIONS FROM GREAT BRITAIN.

Map of the Forts.

THE CO-OPERATIVE

WHOLESALE SOCIETIES LIMITED.

ENGLAND AND SCOTLAND.

ANNUAL FOR 1894.

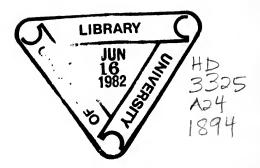
PUBLISHED BY

THE CO-OPERATIVE WHOLESALE SOCIETY LIMITED,

1, BALLOON STREET, MANCHESTER;

AND

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MANCHESTER:

PRINTED AND BOUND BY
THE CO-OPERATIVE PRINTING SOCIETY,
AT THEIR WORKS,
NEW MOUNT STREET, ANGEL STREET.

PREFACE.

In introducing this, the twelfth, volume of the "Annual" to our readers, we would say that our endeavour has been to select subjects of interest and utility to our members.

Co-operators, we think, should take an active part in the advocacy and propagation of measures having for their aim the welfare and advancement of the people.

We can conceive of no means better calculated to equip them for this work than to put before them in the Articles, Statistics, &c., as herein presented, accurate and reliable information.

We trust these objects will commend themselves and secure . a careful and thorough perusal of the contents.

THE COMMITTEE.

DECEMBER 20, 1893.



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THE

Co-operative Mholesale Society

LIMITED.

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Thirty Years' Progress

Co-operative Societies in the United Kingdom.

		- A-	
YEARS.	Salæs. £	YEARS.	SALES.
1862	. 2,333,523	1877	21,390,447
1863	. 2,673,778	1878	21,402,219
1864	. 2,836,606	1879	20,382,772
1865	. 3,373,847	1880	23,248,314
1866	. 4,462,676	1881	24,945,063
1867	. 6,001,153	1882	27,541,212
1868	. 7,122,360	1883	29,336,028
1869	. 7,353,363	1884	30,424,101
1870	. 8,201,685	1885	31,305,910
1871	. 9,463,771	1886	32,730,745
1872	. 13,012,120	1887	34,483,771
1873	. 15,639,714	1888	37,793,903
1874	. 16,374,053	1889	40,674,673
1875	. 18,499,901	1890	43,731,669
1876	. 19,921,054	1891	49,024,171

Total Sales in the Thirty Years, 1862 to 1891.

£605,684,602.

TOTAL PROFITS IN THE THIRTY YEARS, 1862 TO 1891.

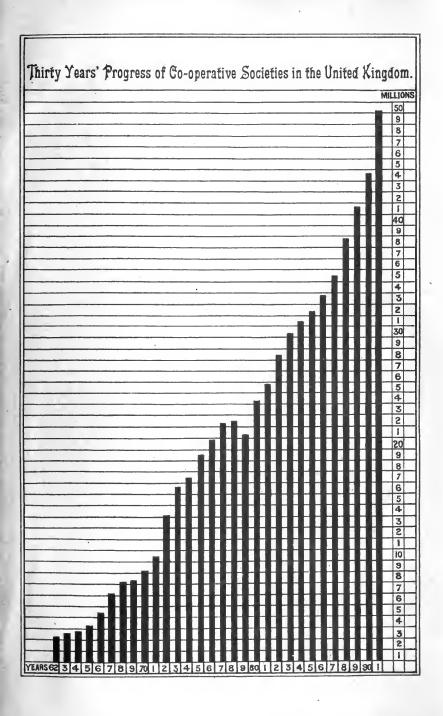
52,403,650.

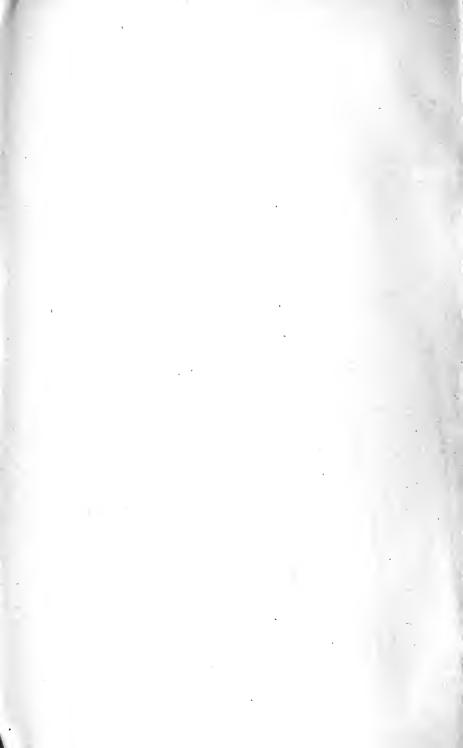
STATISTICAL POSITION OF CO-OPERATIVE SOCIETIES IN THE UNITED KINGDOM,

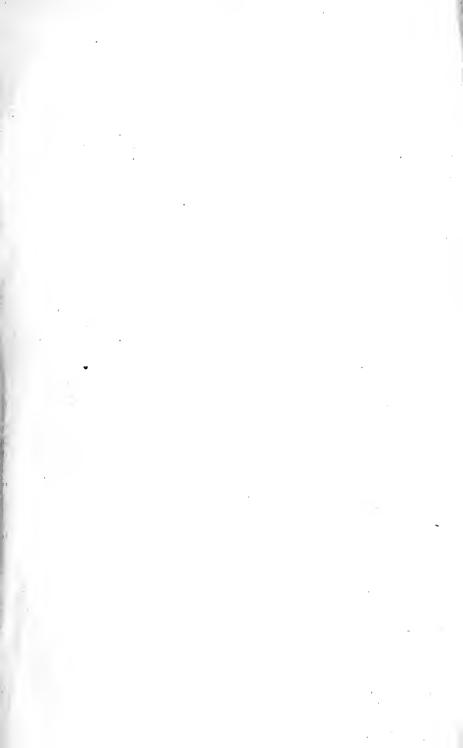
DECEMBER 31st, 1891.

Compiled from the Returns made by Societies to the Registrar and Co-operative Union.

Number of Members	•••		•••		1,207,	511	£
Share Capital	• • •	• • •	•••	***	•••		13,847,705
Loan Capital		• • •	•••	•••	•••		3,393,394
Sales for 1891	•••	• • •	•••	•••	*** ***	•••	49,024,171
Net Profits for 1891	• • •		•••	•••	•••	•••	4,718,532
Devoted to Education,	1891	L	•••	•••	***_, ***	•••	30,087







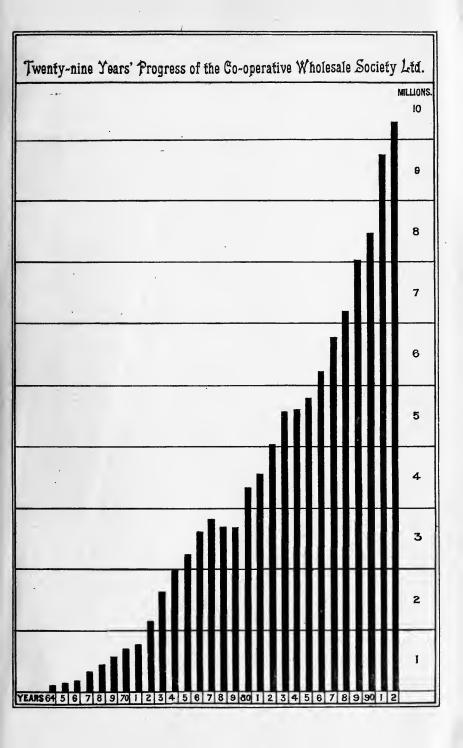
Twenty-nine Years' Progress The Co-operative Wholesale Society Limited.

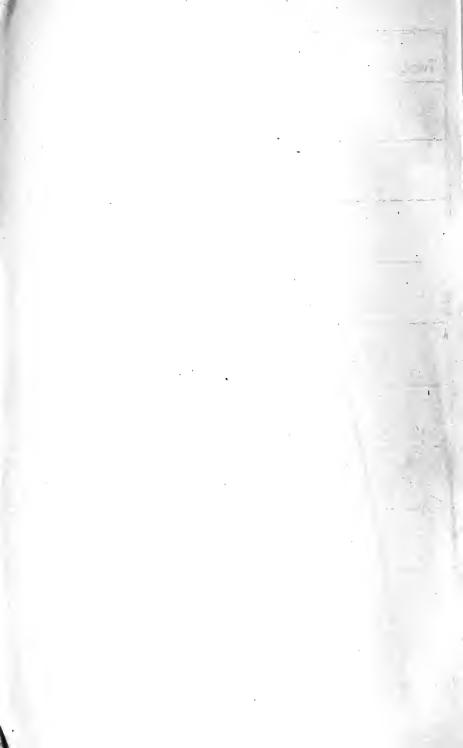
		- A INDIVIDUALISMENTALISMENT CONTROL OF THE PARTY OF THE	
YEARS.	Sales. £	YEARS.	Sales. £
1864 (weeks)	51,857	1879 (weeks)	2,645,331
1865	120,754	1880	3,339,681
1866	175,489	1881	3,574,095
1867 (weeks)	331,744	1882	4,038,238
1868	412,240	1883	4,546,889
1869	507,217	1884 (weeks)	4,675,371
1870 (weeks)	677,734	1885	4,793,151
1871	758,764	1886	5,223,179
1872	1,153,132	1887	5,713,235
1873	1,636,950	1888	6,200,074
1874	1,964,829	1889 (weeks	7,028,944
1875	2,247,395	1890	7,429,073
1876 (weeks)	2,697,366	1891	8,766,430
1877	2,827,052	1892	9,300,904
1878	2,705,625		
TOTAL SALES IN 186	THE TWENTY-NI 4 TO 1892.	NE YEARS, }	95,542,743.
TOTAL PROFITS IN 186	THE TWENTY-N: 34 TO 1892.	ine Years, $\}$	1,262,189.

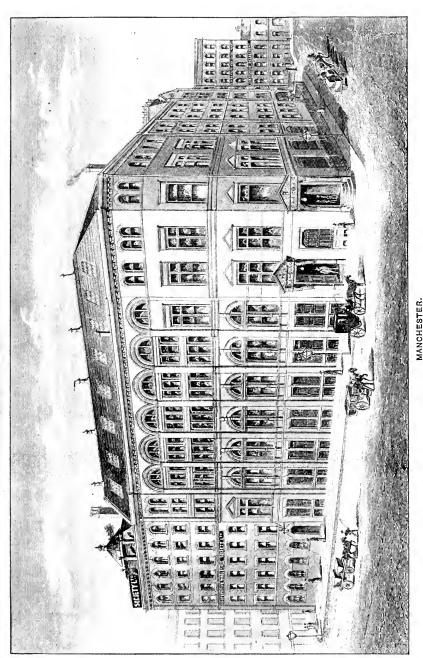
STATISTICAL POSITION OF THE CO-OPERATIVE WHOLESALE SOCIETY LIMITED,

DECEMBER 26TH, 1892.

Number of Societies h	oldir	ng Sh	are	s	•••	•••	1,0	002	
Number of Members b	elon	ging	to S	Share	hold	ers	824,	149	£
Share Capital	•••		••	•••	• • •	•••	•••		523,512
Loans and Deposits .									
Reserve Fund—Trade	and	Bank	2	•••	• • •	•••	• • •	• • •	56,301
Insurance Fund	• • •			•••	•••	•••	•••	•••	218,534
Sales for Year 1892									
Net Profits for Year 1	892		4.0	•••	•••	•••	•••	•••	98,532

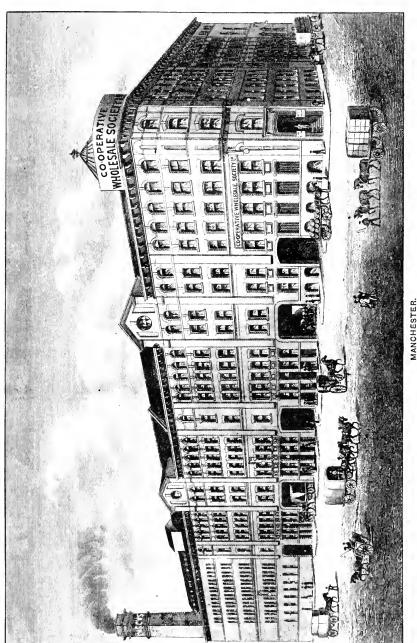






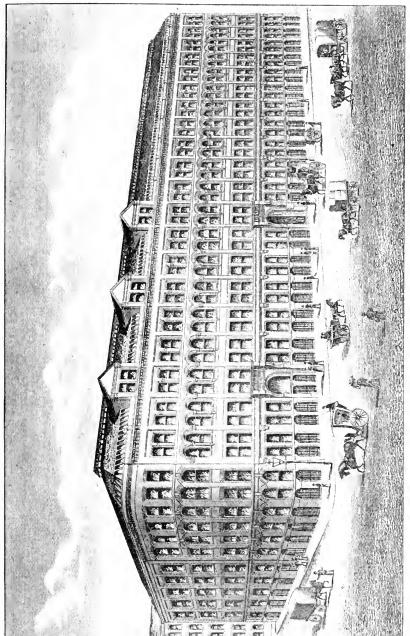
REGISTERED OFFICES, BANK, CENTRAL GROCERY AND PROVISION, BOOT AND SHOE, AND FURNISHING WAREHOUSES, BALLOON STREET AND HOLGATE STREET. (See pages 13 to 16, 25, 50, 57 to 60, 91, 99, and 102.)





CENTRAL GROCERY AND PROVISION AND BOOT AND SHOE WAREHOUSES, BALLOON STREET AND GARDEN STREET. (See pages 14 to 16, 50 to 53, 90, and 102.)



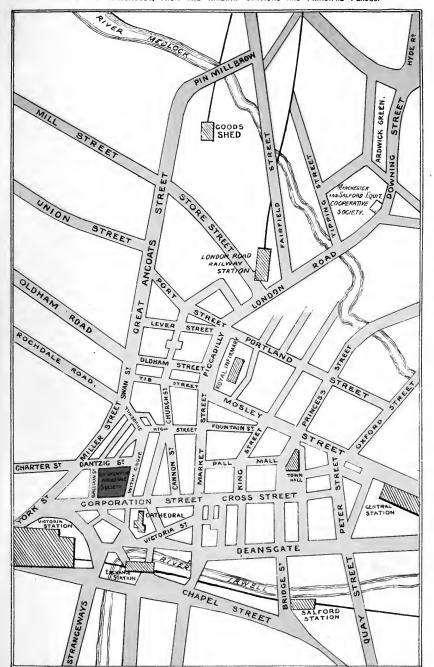


MANCHESTER DRAPERY, WOOLLEN CLOTH, AND READY-MADES DEPARTMENTS. (See pages 22 to 24, 50, 51 to 56, 90, 91, and 103.)

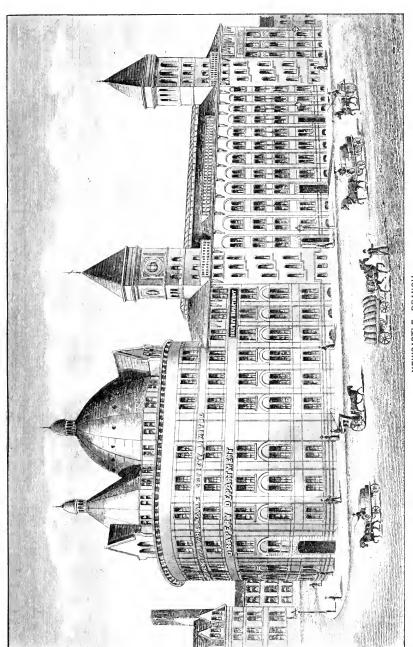


PLAN OF MANCHESTER.

Showing the most Direct Route to the Co-operative Wholesale Society's Central Offices and Warehouse, from the Railway Stations and Principal Places.

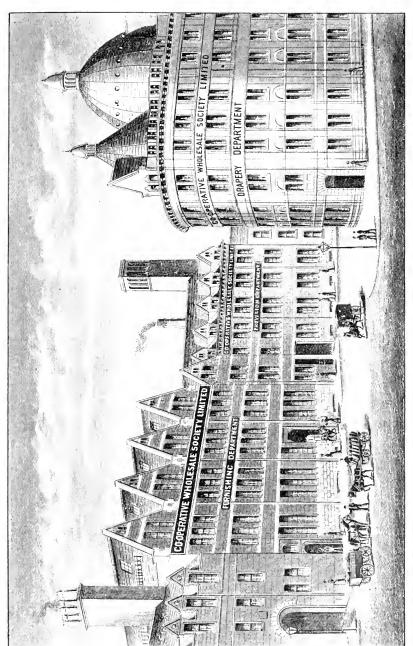






RENCERY, DRAPERY, AND BOOT AND SHOE DEPARTMENTS, WATERLOO STREET. (See pages 50, 61 to 67, 92 to 94, and 104.)



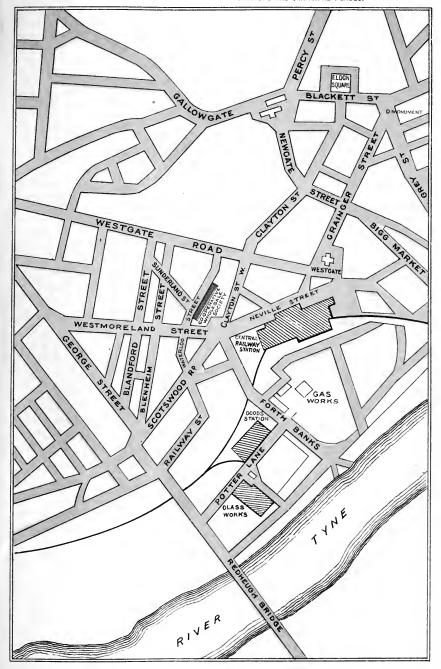


NEWCASTLE DRAPERY, FURNISHING, AND PROVISION WAREHOUSES, THORNTON STREET. (See pages 50, 61 to 67, 92 to 94, and 104.)

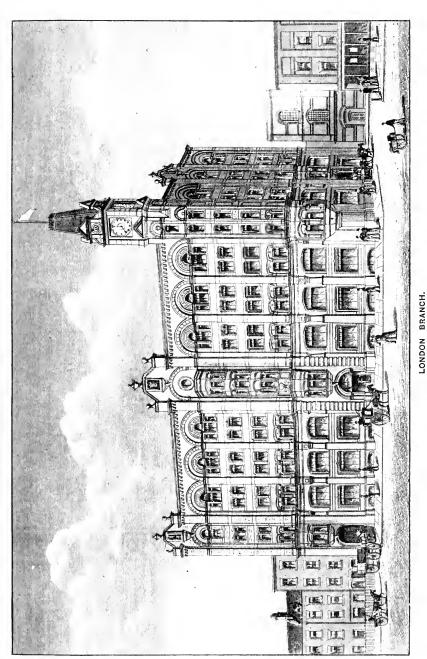


PLAN OF NEWCASTLE.

Showing the most Direct Route to the Co-operative Wholesale Society's Newcastle Branch Premises, from the Railway Stations and Principal Places.

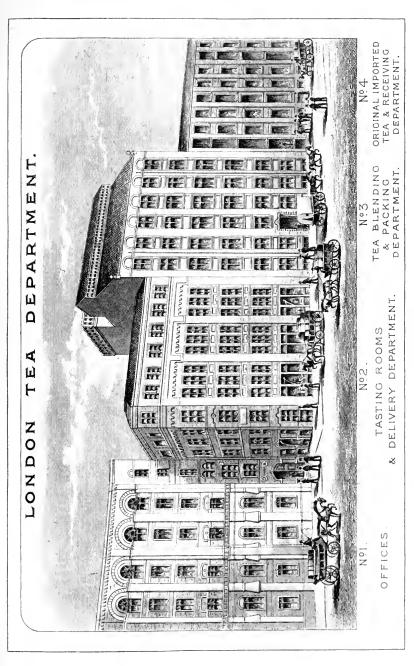




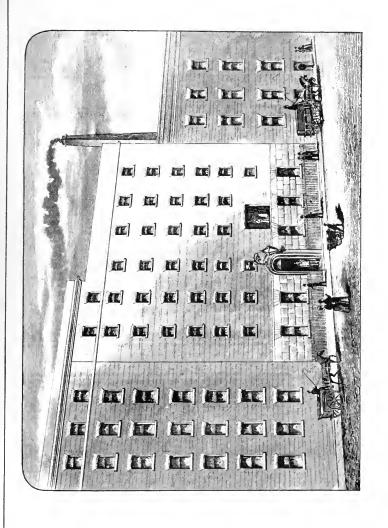


GENERAL OFFICES, GROCERY AND DRAPERY DEPARTMENTS, AND CO-OPERATIVE HALL, LEMAN STREET, E. (See pages 50, 68 to 72, 94 to 96, and 105.)



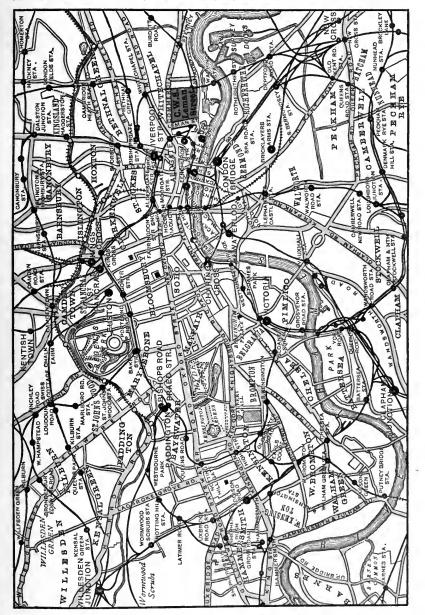








SHOWING THE LONDON BRANCH, LEMAN STREET, E., AND THE PRINCIPAL RAILWAY STATIONS.





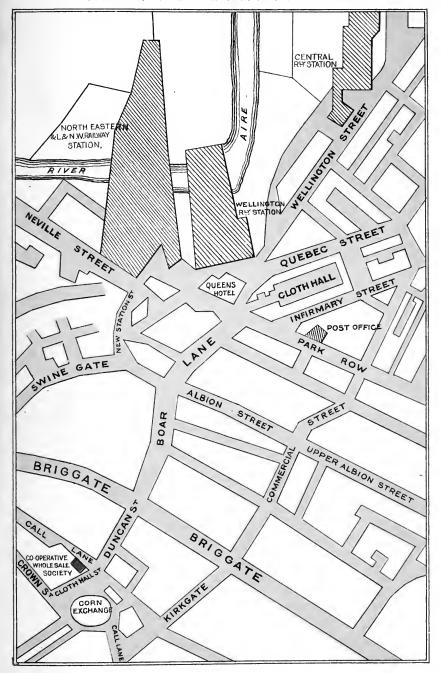


LEEDS, 33, CALL LANE.

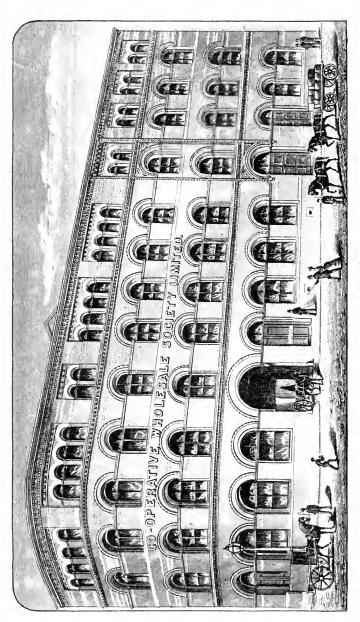


PLAN OF LEEDS.

Showing the most Direct Route to the Co-operative Wholesale Society's Sale and Sample Room, from the Railway Stations and Principal Places.





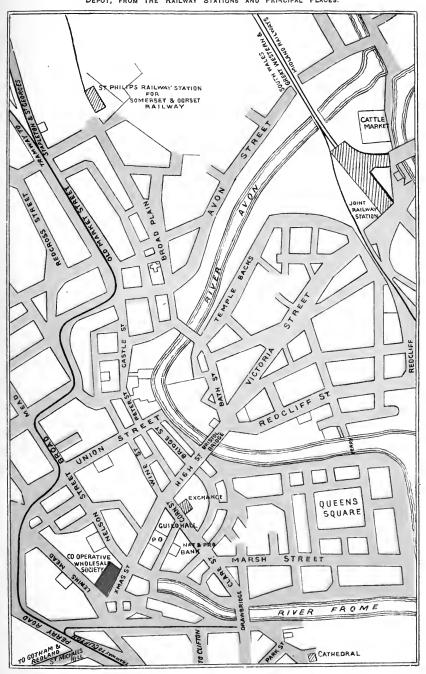


BRISTOL DEPOT, CHRISTMAS STREET. (See page 50.)



PLAN OF BRISTOL.

Showing the most Direct Route to the Co-operative Wholesale Society's Bristol Depot, from the Railway Stations and Principal Places.





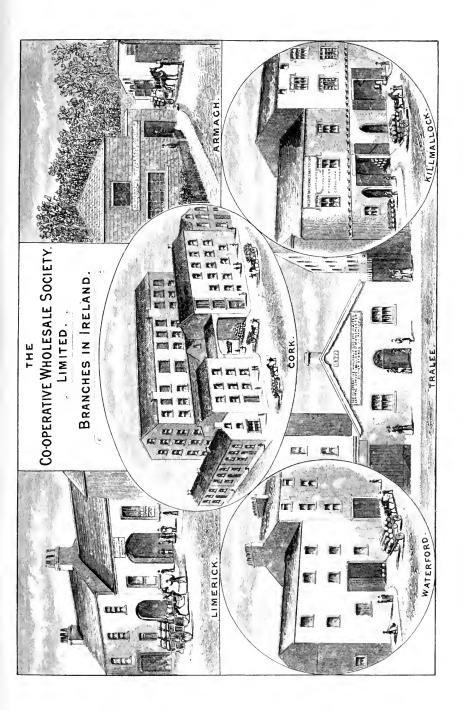
LIVERPOOL GREEN FRUIT WAREHOUSE, CUMBERLAND STREET.





NEW YORK PRODUCE EXCHANGE, BROADWAY, NEW YORK,
IN WHICH THE SOCIETY'S OFFICES ARE SITUATE.



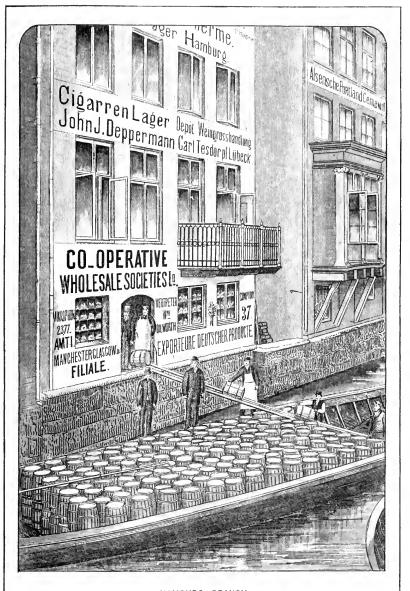




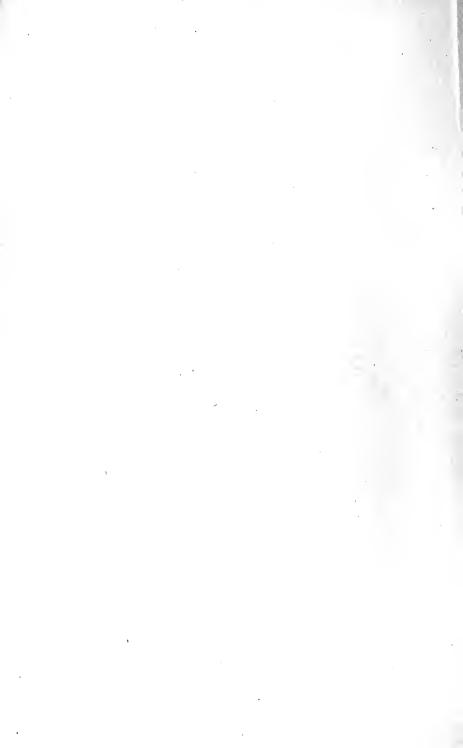


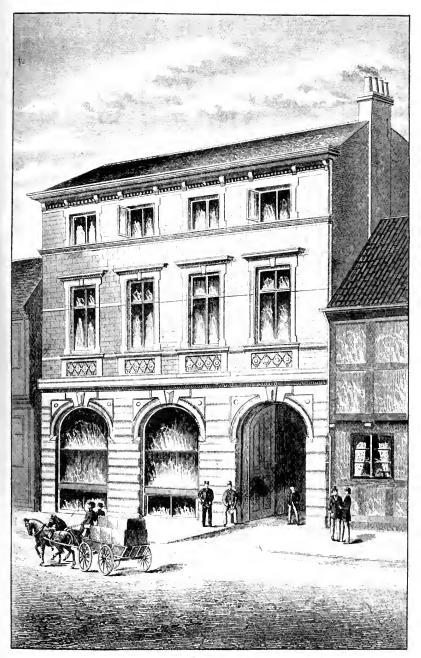
COPENHAGEN BRANCH, HAVNEGADE, 41.

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HAMBURG BRANCH.
CATHARINEN STREET, No. 37.

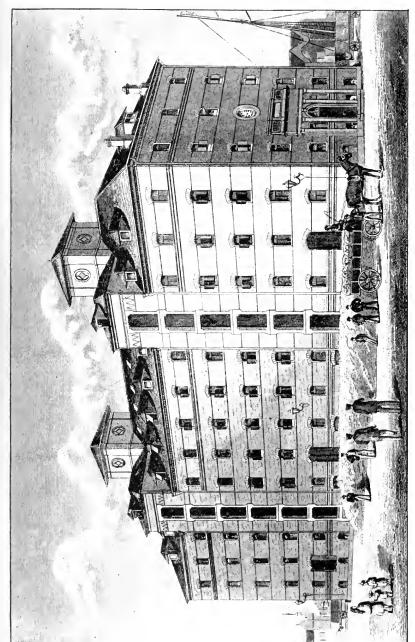




AARHUS BRANCH. DENMARK.

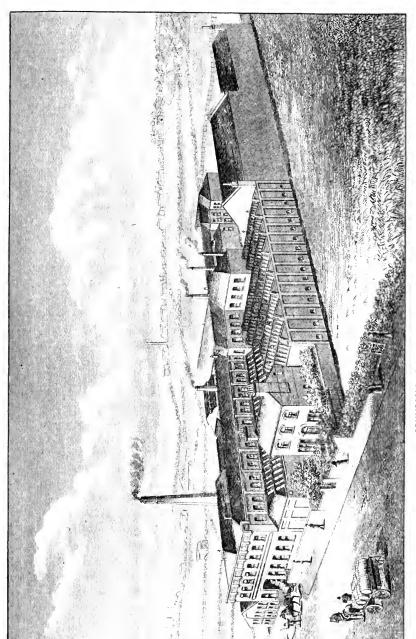
[iii.]





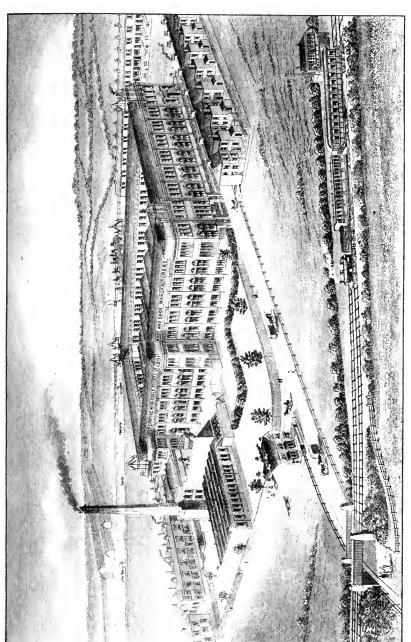
BUTTER CELLAR, AARHUS, Denmark.





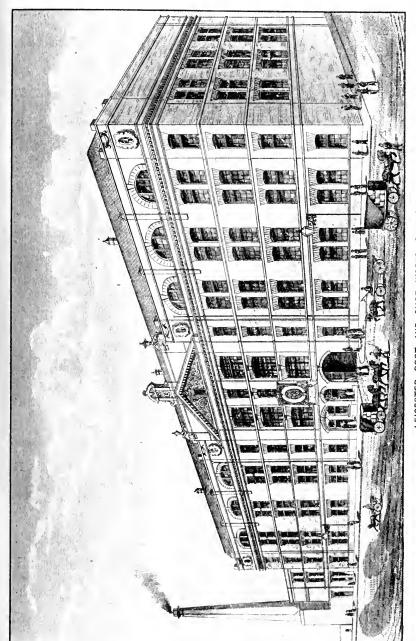
CRUMPSALL BISCUIT AND SWEETS, &c., WORKS. (See pages 27, 50, 76, and 96.)





WHEAT SHEAF BOOT AND SHOE WORKS, KNIGHTON FIELDS, LEICESTER. (See pages 29, 50, 78, and 37.)



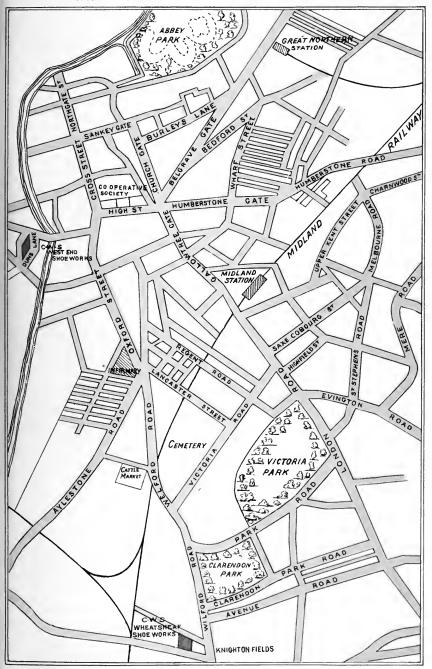


LEIGESTER BOOT AND SHOE WORKS, DUNS LANE. (See pages 50, 78, and 97.)

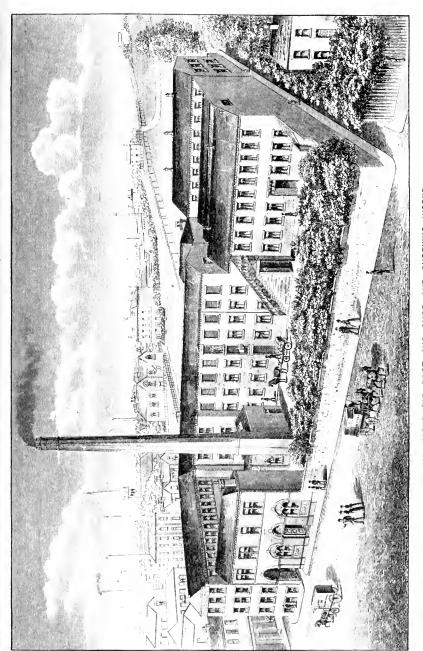


PLAN OF LEICESTER.

Showing the most Direct Route to the Co-operative Wholesale Society's Boot and Shoe Works, from the Railway Stations and Principal Places.



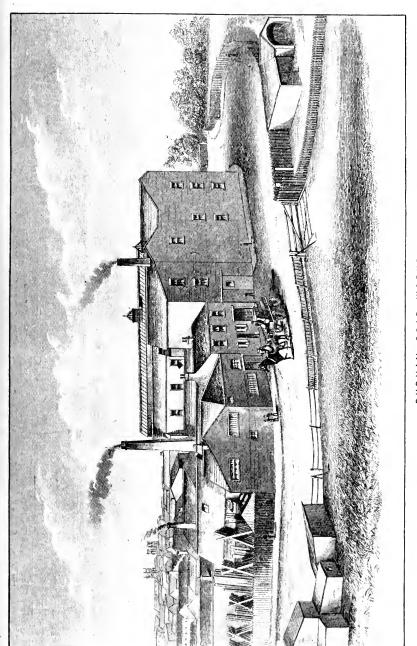




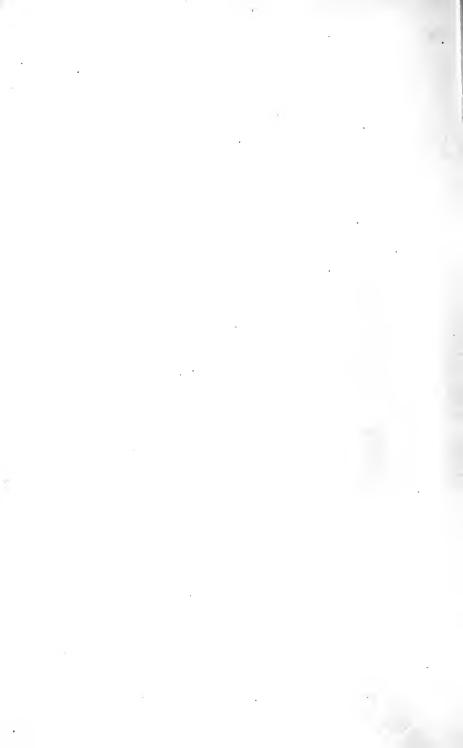
HECKMONDWIKE BOOT AND SHOE AND CURRYING WORKS.

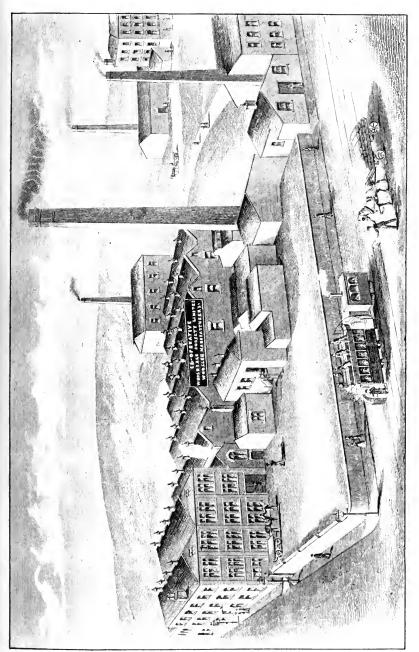
(See pages 33, 50, 73, and 98.)





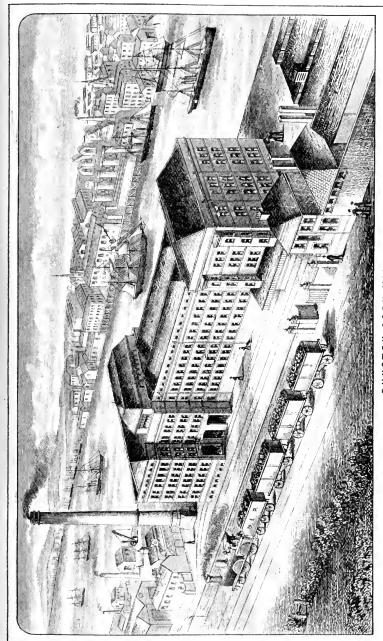
DURHAM SOAP WORKS. (See pages 34, 50, 84, and 99.)





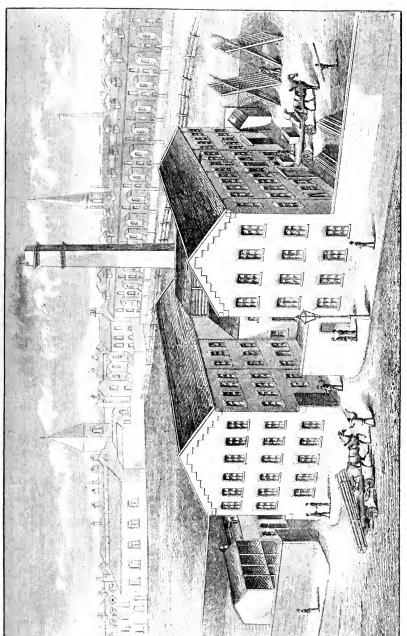
LIVINGSTONE MILL, BATLEY.—WOOLLEN CLOTH WORKS. (See pages 35, 50, 87, and 101.)





DUNSTON CORN MILL. (Sce payes 50, 86, and 100.)





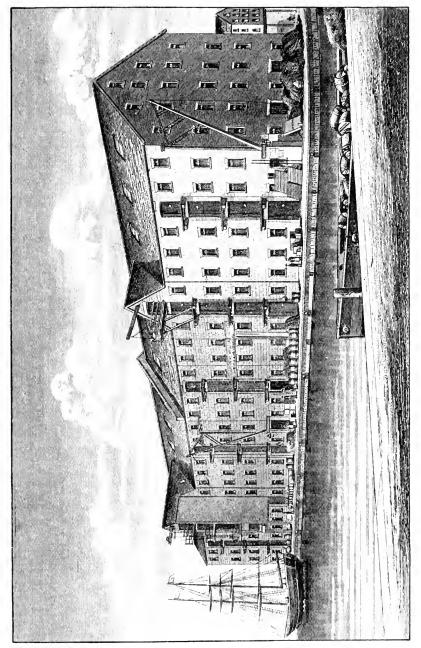
FURNITURE FACTORY, BROUGHTON, NEAR MANCHESTER. (See pages 25 and 50.)



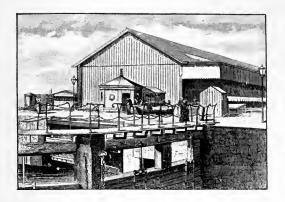


GOOLE OFFICES, STANHOPE STREET.

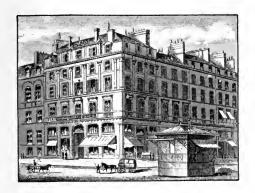






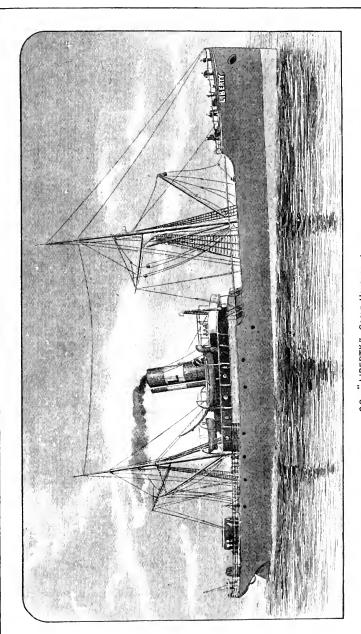


GARSTON OFFICES,
WEST SIDE, NEW DOCK, GARSTON, NEAR LIVERPOOL.



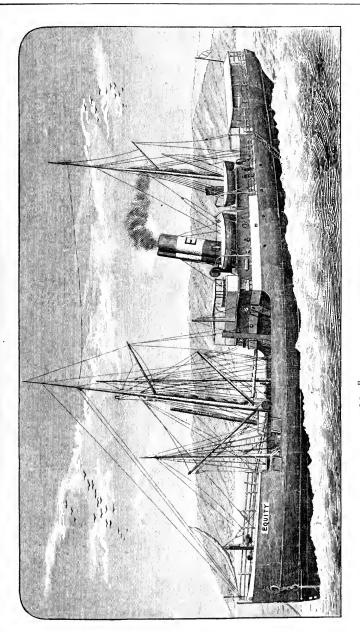
ROUEN OFFICES,
2, Rue Jeanne D'ARO, ROUEN, FRANCE.





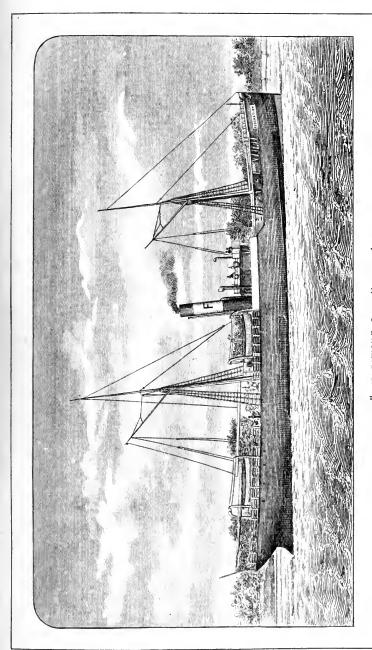
8.S. "LIBERTY." GOCLE-HAMBURG LINE. (See pages 40 and 60.)





8.S. "EQUITY." GOOLE-HAMBURG LINE. (See pages 40 and 60.)



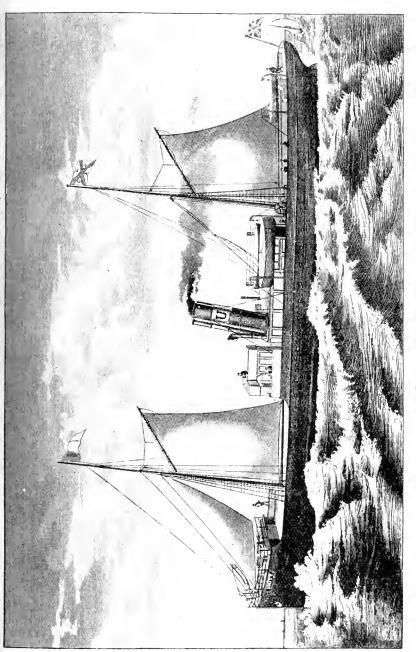


S,S. "FEDERATION." GOOLE-HAMBURG LINE. (See pages \$0 and 50.)



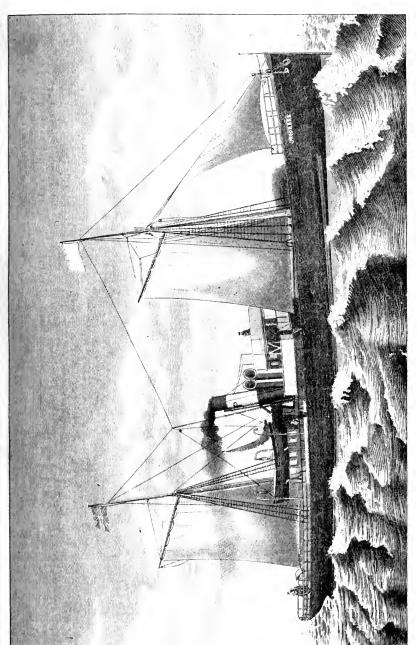
S.S. "PIONEER." GOOLE-CALAIS LINE. (See pages 39 and 50.)





S.S. "UNITY," GARSTON-ROUEN LINE. (Nee page: 33 and 50.)





"PROGRESS." GOOLE. CALAIS LINE (See pages 39 and 50.)



THE CO-OPERATIVE WHOLESALE SOCIETY LIMITED.

Enrolled August 11th, 1863, under the Provisions of the Industrial and Provident Societies Act, 25 and 26 Vict., cap. 87, sec. 15, 1862.

Business commenced March 14, 1864. Shares, £5 each,

CENTRAL OFFICES, BANK, GROCERY AND PROVISION, AND BOOT AND SHOE WAREHOUSES:

BALLOON STREET, MANCHESTER.

DRAPERY, WOOLLEN CLOTH, AND READY-MADES WAREHOUSES:

DANTZIC STREET, MANCHESTER.

FURNISHING WAREHOUSE:

HOLGATE STREET, MANCHESTER.

BRANCHES:

WATERLOO STREET, NEWCASTLE-ON-TYNE, AND LEMAN STREET, LONDON, E.

PURCHASING AND FORWARDING DEPOTS:

ENGLAND:

LIVERPOOL, BRISTOL, LONGTON, GOOLE, AND GARSTON.

IRELAND:

CORK, LIMERICK, KILMALLOCK, WATERFORD, TRALEE, AND ARMAGH.

AMERICA:

DENMARK:

NEW YORK.

COPENHAGEN, AARHUS.

FRANCE:

GERMANY:

CALAIS AND ROUEN.

HAMBURG.

SALEROOMS:

LEEDS, HUDDERSFIELD, NOTTINGHAM, BLACKBURN, BIRMINGHAM, NORTHAMPTON, AND CARDIFF.

PRODUCTIVE WORKS:

BISCUITS, SWEETS, AND JAM WORKS, AND DRY SOAP WORKS:
CRUMPSALL, NEAR MANCHESTER.

BOOT AND SHOE WORKS:
LEICESTER AND HECKMONDWIKE.

SOAP WORKS:

DURHAM.

WOOLLEN CLOTH WORKS:

LIVINGSTONE MILL, BATLEY.

READY-MADES WORKS:

HARPER PLACE, LEEDS.

COCOA AND CHOCOLATE WORKS:

116, LEMAN STREET, LONDON.

CORN MILL:

DUNSTON-ON-TYNE.

FURNITURE FACTORY:

BROUGHTON, NEAR MANCHESTER.

SHIPOWNERS AND SHIPPERS:

BETWEEN

GARSTON AND ROUEN:

GOOLE AND CALAIS;

GOOLE AND HAMBURG.

STEAMSHIPS OWNED BY THE SOCIETY:

" PIONEER."

"UNITY,"

" PROGRESS,"

"FEDERATION," "EQUITY,"

AND

" LIBERTY."

BANKERS:

THE MANCHESTER AND COUNTY BANK LIMITED.

THE LONDON AND COUNTY BANK.

THE NATIONAL PROVINCIAL BANK OF ENGLAND.

THE MANCHESTER AND LIVERPOOL DISTRICT BANK.

THE LANCASHIRE AND YORKSHIRE BANK.

THE UNION BANK OF MANCHESTER.

General Committee.

PRESIDENT:

VICE-PRESIDENT:

Mr. J. T. W. MITCHELL, 15, John Street, Rochdale.

Mr. JOHN SHILLITO. 17, Cavendish Terrace, Halifax.

SECRETARY:

Mr. THOMAS SWANN, Beech Villa, James Street, Mashorough,

MI. TITOMIN DIVITINI, DOCCII	ma, vames street, masterough.
Mr. WILLIAM BATES	Green Lane, Patricroft.
Mr. THOMAS BLAND	Rashcliffe, Huddersfield.
Mr. E. GRINDROD	
Mr. E. HIBBERT	7, Wicken Tree Lane, Failsworth.
Mr. THOMAS HIND	
Mr. THOMAS KILLON	45, Heywood Street, Bury.
Mr. JOHN LORD	
Mr. JAMES LOWNDS92,	Catherine Street, Ashton-under-Lyne.
Mr. T. E. MOORHOUSE	
Mr. ALFRED NORTH	Mount Pleasant, Batley.
Mr. H. C. PINGSTONE	
Mr. A. SCOTTON	48, Co-operative Street, Derby.
Mr. JOHN STANSFIELD	Jeremy Lane, Heckmondwike.

* * *

NEWCASTLE BRANCH COMMITTEE.

CHAIRMAN: Mr. T. TWEDDELLCleveland Terrace, West Hartlepool.
SECRETARY: Mr. ROBERT GIBSON, 120, Sidney Grove, Newcastle-on-Tyne.
Mr. GEORGE BINNEY
Mr. THOMAS RULE20, Ravensworth Terrace, Bensham, Gateshead.
Mr. THOMAS SHOTTONCemetery Road, Blackhill, Durham. Mr. WILLIAM STOKERSeaton Delaval, Northumberland.

* * *

LONDON BRANCH COMMITTEE.

CHAIRMAN: Mr. GEO. HAWKINS, 53, Kingston Road, Oxford.

VICE-CHAIRMAN: Mr. GEO. SUTHERLAND, 78, Maxey Road, Plumstead. SECRETARY: Mr. HENRY PUMPHREY, Paddock Terrace, Lewes.

* * *

SCRUTINEERS.

Mr. F. HARDERN, Oldham. Mr. J. J. BAIRSTOW, Dewsbury.

* * *

AUDITORS.

Mr. THOS. J. BAYLIS, Rotherham. Mr. JAMES E. LORD, Rochdale. Mr. ISAAC HAIGH, Barnsley. Mr. THOMAS WOOD, Manchester.

Officers of the Society.

-
ACCOUNTANT. Mr. THOMAS BRODRICK, Eccles. Mr. A. GREENWOOD, Rochdale
BUYERS, SALESMEN, &c.
MANCHESTER—GROCERY AND PROVISIONS:
Mr. ISAAC TWEEDALE. Mr. THOMAS PEARSON. Mr. GEORGE GARLICK. Mr. WILLIAM WROOT.
MANCHESTER—DRAPERY:
Mr. JAMES FLETCHER. Mr. WILLIAM T. ALLITT. Mr. JOHN SHARROCKS. Mr. JOHN T. OGDEN.
MANCHESTER-WOOLLENS, BOOTS, AND FURNITURE:
Woollen Cloth
MANCHESTER—TRAVELLERS:
Grocery and Provisions
SHIPPING DEPARTMENT:
General ManagerMr. CHAS. R. CAMERON.
SHIPPING AND FORWARDING DEPOTS:
Rouen (France) Mr. JAMES MARQUIS. Goole Mr. W. J. SCHOFIELD. Calais Mr. WILLIAM HURT.
LONDON:
Tea, Coffee, and CocoaMr. CHARLES FIELDING
LIVERPOOL:
Grocery and ProvisionsMr. ARTHUR W. LOBB.
SALEROOMS:
LeedsMr. JOSEPH HOLDEN.NottinghamMr. G. T. TOWNSEND.HuddersfieldMr. GEO. BARLASS.BirminghamMr. J. KERSHAW.NorthamptonMr. A. BAKER.CardiffMr. J. F. JAMES.
LONGTON:
Crockery Depôt

			E	

Grocery and Provisions Mr. ROBT. WILKINSON. ", " " " Mr. T. WEATHERSON. Drapery..... Mr. JOHN MACKENZIE. Boot and Shoe Mr. O. JACKSON.

BUYERS, SALESMEN, &c.

LONDON:

BRISTOL DEPÔT:

Mr. C. CUNNINGHAM.

IRISH BRANCHES-BUTTER AND EGGS.

CORK:

Mr. WILLIAM H. STOTT.

KILMALLOCK:

Mr. THOS. G. O'SULLIVAN.

TRALEE:

Mr. JAMES DAWSON.

LIMERICK:

Mr. WILLIAM L. STOKES.

WATERFORD:

Mr. THOMAS J. SHANN.

ARMAGH:

Mr. J. HOLLAND.

NEW YORK (AMERICA):

Mr. JOHN GLEDHILL. | Mr. JAS. M. PERCIVAL.

COPENHAGEN (DENMARK): Mr. JOHN ANDREW.

HAMBURG (GERMANY):

Mr. WM. DILWORTH.

AARHUS (DENMARK):

Mr. H. J. W. MADSEN.

LOWER CRUMPSALL BISCUIT, &C., WORKS: Mr. THOMAS HAYES.

LEICESTER BOOT AND SHOE WORKS: Mr. JOHN BUTCHER.

HECKMONDWIKE BOOT AND SHOE WORKS: Mr. J. W. HEMMINGS.

DURHAM SOAP WORKS: BATLEY WOOLLEN CLOTH WORKS: Mr. J. E. GREEN. Mr. S. BOOTHROYD.

LEEDS READY-MADES WORKS:

Manager Mr. WILLIAM UTTLEY. Traveller Mr. J. STEAD.

DUNSTON CORN MILL:

Mr. LEWIS DYSON.

BROUGHTON (MANCHESTER) CABINET FACTORY: Mr. J. HODGKINSON.

Employes.

NUMBER OF EMPLOYES, OCTOBER, 1893.

MANCHESTER: General Drapery, Boot and Shoe, Tailoring Department, Cable St. 82

	and Furnishing Offices 236 Boot and Shoe ,,	31
(Cashier's Office	38
	Grocery Department 142 Shipping ,,	4
]	Drapery ,, 91 Building ,,	83
	Shirt Manufacturing	10
1	Woollen Cloth Department 9 Other ,,	34
	* Total Manchester	825
	Newcastle Branch	311
	" Building Department	79
	London Branch	192
	" Building Department	64
	,, Tea ,, Stables	333
	" Stables	15
	Brush Productive	13
	Leeds Saleroom	3
	Nottingham Saleroom	1
	Birmingham "	1
	Northampton ,,	ī
	Bristol Depôt	40
	Cardiff	1
	Liverpool Branch—Grocery and Shipping	22
	Longton—Crockery Department	18
	Irish Branches	40
	Rouen Branch	4
	Goole ,,	12
	Calais ,,	8
	Garston ,	2
	New York Branch	6
	Copenhagen ,,	8
	Hamburg ,,	3
	Aarhus ,,	4
	Crumpsall Biscuit Works	
	Leicester Shoe ,, Knighton Fields	
	Dung Tong	286
	", ", ", Duns Lane Enderby	120
	Heckmondwike Shoe Works	243
	,, Currying Department	43
	Durham Soap Works	17
	Patler Weellen Mill	
	Batley Woollen Mill Leeds—Ready Mades	209
	Dungton Com Mill	209 124
	Dunston Corn Mill	124 44
	Broughton Cabinet Factory	44
	tion," 18; "Equity," 19; "Liberty," 19	98
	tion, 18; "Equity," 19; "Liberty," 19	
	m-4-1	7000
	Total)ZUZ

Terms of Rembership.

TRADE DEPARTMENT.

POR the information of Societies and Companies not already purchasers from or members of this Society, we give below—(1) our requirements on opening new accounts; (2) particulars of trade terms; (3) terms and conditions of membership; and (4) a few of the advantages accruing from membership.

Any further information will gladly be given on application.

(1) NEW ACCOUNTS.

Societies desiring to open accounts are requested to furnish us with a copy each of their registered rules and latest balance sheet.

If a balance sheet has not been prepared, then the following information should be sent, viz., the number of members; amount of paid-up share capital; whether credit is allowed, and if so, to what extent; the amount of business done, or expected to be done per week.

(2) TRADE TERMS.

With the first order sufficient cash must be remitted to cover the estimated value of the goods ordered; afterwards payment must be made within seven days from date of invoice; all accounts are rendered strictly net.

Business is conducted on these terms, with registered Co-operative

Societies and Companies only.

Societies in process of formation and whose rules are not yet registered can be supplied with goods on payment of cash with each order.

(3) TERMS AND CONDITIONS OF MEMBERSHIP.

The following extracts from our Rules contain the principal features in connection with membership:—

(a) ADMISSION OF MEMBERS.—(Extract from Rule 5.)

The members of this society shall consist of such co-operative societies or companies (registered under the Industrial and Provident Societies Act, 1876, or under the Companies Acts, with limited liability, or under any law of the country where they are situate, whereby they acquire the right of trading as bodies corporate, with limited liability) as have been admitted by the general committee, and approved by a majority of delegates voting at a general meeting of the society. An application for shares shall be made by a resolution of some general or committee meeting of the society or company making the application, contained in writing and attested by the signatures of the secretary and three of its members. Every society or company making an application for shares shall state the number of its members, and take up not less than three £5 shares for every twenty members, or fractional part thereof, and agree to increase the number annually as its members increase, making the return of such increase at the time and in accordance with its return to the Registrar.

(b) CAPITAL-HOW PAID UP,-(Extract from Rule 9.)

The capital of this society shall be raised in shares of five pounds each, which shall be transferable only. Every society, on its admission, shall pay the sum of not less than one shilling on each share taken up. Each five pounds so paid shall constitute one fully paid-up share; but no dividend or interest shall be withdrawn by members until their shares are paid up. Any member may pay up shares in advance. After having received the consent of a special meeting, the whole or any part of the share capital may be called up by the general committee on giving notice to that effect.

to that enect.
(c) FORM OF APPLICATION FOR SHARES.
APPLICATION FOR SHARES.
Folio
The
Co-operative Society Limited.
TO THE DIRECTORS OF THE CO-OPERATIVE WHOLESALE
SOCIETY LIMITED, 1, BALLOON STREET, MANCHESTER.
Gentlemen, Whereas, by a Resolution of the
Co-operative Society Limited, passed by the*
at a Meeting held on theday ofit was
resolved that the Society, which consists of Members,
agree to take upShares (being not less than Three Shares for every Twenty of our Members, or fractional part
thereof) in the Co-operatibe Mholesale Society Limited, and
annually to increase our Shares at the time and in accordance
with our return to the Registrar, and to accept such Shares on
the terms and conditions specified in your Rules.
Attested by
Attested by
)
Secretary.
* Members, Committee of Management, or Directors.

(4) ADVANTAGES ACCRUING FROM MEMBERSHIP.

(a) The liability of each society member is limited to the amount of its shares.(b) Members of this Society receive double the rate of dividend on purchases to non-members.

(c) Share capital receives interest after the rate of £5 per cent per annum.(d) Each society composing the "Wholesale" may nominate one representative

(d) Each society composing the "Wholesale" may nominate one representative for every 500 of its members to represent it at the General or Branch Quarterly Meetings, or other Special Meetings which may be convened from time to time, and thus have a direct influence and voice in the control and management of its affairs. The nomination and election of its officers for General and Branch Committees, Auditors, and Scrutineers are effected by means of nomination and voting papers, which are sent to all shareholding societies to be filled up.

(e) A merely nominal payment secures membership, a deposit of 1s. per share upon application being only required; the dividend on purchases and interest on

share capital being credited to share account until paid up.

Those societies not already federated with the "Wholesale" should at once join and thus secure the advantages to themselves and the co-operative movement generally which its extensive and varied operations are intended to confer.

Business Notices.

ALL LETTERS TO BE ADDRESSED TO THE SOCIETY, AND NOT TO INDIVIDUALS.

WE would especially impress upon Societies' Managers and Secretaries the necessity of complying with the following regulations, in order to facilitate the despatch of Goods, to ensure promptitude in the answering and classification of letters, and to prevent disappointment.

LETTERS.

ALL letters must be addressed to the Society, and not to individuals.

Addressed Envelopes are supplied at cost price.

Communications for the following Departments, and relating to the subjects named, should always be made on separate forms or sheets of paper, viz.:—

- (1) Bank and Cashier's Department.
- (2) Accountant's Department.
- (3) Grocery and Provision Department-Orders only.
- (4) ,, ,, Application for Samples only.
- (5) Drapery Department—Orders and Applications for Samples.
- (6) Boot and Shoe Department—Orders and Applications for Samples.
- (7) Woollen Cloth
- (8) Furnishing Department—Orders and Applications for Samples.
- (9) Advices of Returns.
- (10) Claims, delays, complaints, &c., for all Departments.

Although each of the above classifications requires a separate form, they should all be enclosed under one cover, and addressed to the Society.

At the Central Office, in Manchester alone, the number of Letters, Orders, &c., received daily is enormous. To effectually deal with these communications some division into departments is absolutely necessary.

These classifications have therefore been adopted, and Societies are asked to assist by seeing that their communications are despatched in accordance therewith, as when subjects included in more than one of these divisions are dealt with on one form, much labour is involved in re-writing the portions required to be separated.

ORDERS FOR GOODS.

The name of the Society and the Station to which the Goods are to be forwarded should be written at the head of each order.

ORDERS should contain the Price or Brand of each Article wanted.

Delays would often be prevented by noticing in which column in the Price Lists (Manchester, Newcastle, London, &c.) the Goods are quoted, and posting the Orders direct to the Central, or branches named, as the case requires.

As regards "Direct Quotations," notwithstanding that there are many instances where minimum quantities are fixed, orders are frequently received for less than the stipulated quantities. This necessitates correspondence, and in cases of urgency entails inconvenience to Societies, which would be obviated by carefully noticing the Price List when ordering.

It is desirable that the Forms we have specially prepared should be used in sending Orders.

- 1. Grocery, Drapery, Woollens, and Furnishing Department.
- 2. Tailoring (Bespoke), with instructions for measurement.

3. Boot and Shoe Department.

4. ,, , , (Bespoke), with instructions for measurement. Books containing 50 Forms, with Duplicates, will be sent free on application.

Orders for each Department should be made out on separate forms.

CONSIGNMENT OF GOODS.

WHENEVER delays occur in the delivery of Goods, Societies will please communicate with the carrier at their end, in addition to informing us.

To prevent any misunderstanding as to who is responsible for the safe delivery of Goods, we would state that when Goods are Carriage Paid we undertake their safe delivery; but when the Carriage is Not Paid, the Carrier is responsible to the Consignees, who, before taking delivery of any Goods, should carefully examine the same, and at once claim for any loss or damage sustained in transit.

EMPTIES.

EMPTY packages should be returned carefully packed, and fully and correctly consigned.

Each package should have a label or direction card attached, stating the contents, the name of the Society forwarding them, and the name and address of their destination.

Empties should be returned direct to the manufacturer from whom the Goods were sent. When returned to Manchester or the Branches, additional expense and trouble are incurred in re-consigning them to their proper destination.

A few manufacturers pay carriage on returned empties; where this is done Societies will consign carriage forward, in all other cases carriage should be paid. A list of firms who pay carriage may be obtained on application at the Central Offices.

In all cases an advice giving full particulars of the empties returned (viz., the kind, the quantity, the numbers, the price charged, and reference to invoice where charged) should be immediately posted to us, as unless this is done our rule is not to allow credit for them.

We have a book, which we send free on application, containing 50 forms, with duplicates, specially prepared for this purpose, which Societies are recommended to use.

The importance of carrying out these instructious will be seen when Societies are informed that the Railway Companies seldom make deliveries of empties until they have a complete load, and under such circumstances it is almost impossible to ascertain from what Societies they have been received, unless full particulars are given.

In many cases Societies do not fully carry out these instructions, consequently we are continually receiving empty packages which we are not able to credit because we do not know from whom they have been returned. This is a loss which we are desirous Societies should not incur; we therefore point it out to them so that the necessary precautions may be taken to avoid it.

GOODS CONSIGNED AS EMPTIES.

WE cannot hold ourselves responsible for any Goods that may be returned consigned as empties, as any claim made on the Railway Companies for missing Goods under such circumstances would not be entertained.

STATEMENTS OF TRADE ACCOUNTS.

Weekly Statements

ARE sent out to all Societies doing business with us, showing Total of Goods Invoiced, Cash Received, and Allowances made during the week, and Balance, if any, at the week end.

. These statements afford a great check on Societies' books, and Secretaries are requested to compare each one as received with their books, and to report to us particulars in case of any discrepancy.

QUARTERLY STATEMENTS

Are issued immediately after our Books are made up for the Quarter.

They are in form similar to the Weekly Statements, and must be returned, duly certified if correct, to our Auditors, who require them as an independent check as to the correctness of our accounts.

We rely upon Societies giving prompt attention to these statements, as the early issue of our Balance Sheets depends to an extent on their immediate return.

In case of any discrepancy, details should be at once given or applied for, but if correct, the Statement should be forthwith signed and returned to the Auditors, in the envelope sent out for that purpose.

SHARE AND LOAN PASS BOOKS.

THESE should be sent to the Head Office (1, Balloon Street, Manchester) every Quarter, viz., in the Second Week of March, June, September, and December, for the purpose of having the previous quarter's Interest and Dividend entered therein. Societies requiring information respecting the amount of their Share or Loan Capital are requested to send their Pass Books for the amount to be filled in, instead of sending for Statements.

When Shares are paid up the Share Book need not again be sent until a further allotment is made.

SOCIETIES' BALANCE SHEETS.

We especially desire those Societies who have not already done so to send us a copy of their last Balance Sheet, stating on it the number of their Members; also, a copy of their rules.

Erade Department.

CASH ARRANGEMENTS.

WE beg to call the attention of Societies to the arrangements specified below, which will give facility and security when making remittances to this Society:—

- 1. All cash must be addressed to the Society only, and not to individuals, nor to the committee or auditors.
- 2. CHEQUES and DRAFTS to be made payable to the CO-OPERATIVE WHOLESALE SOCIETY LIMITED. Post-office orders must be made payable to ABRAHAM GREENWOOD. Drafts drawn in favour of this Society must be made payable on demand; other drafts when remitted to us must have reached maturity. All drafts, if possible, should be made payable either at London or Manchester.
- 3. Societies are respectfully requested, when drawing cheques in our favour, to do so in full, viz., Co-operative Wholesale Society Limited, without any abbreviation or variation whatever.
- 4. In forwarding half notes societies should state whether they are first or second halves; the latter half notes should be forwarded immediately on receipt of our acknowledgment of the first. Societies not receiving acknowledgment for first or second half notes in due course of post, will oblige by calling attention to the omission.
- 5. Care should be taken to advise immediately when a remittance is made to us, stating the amount and the name and place of the bank or branches through which the remittance is made.
- 6. Remittances made through a bank in all cases should be done in the name of the society sending cash to us, and not in the name of a person.
- 7. Arrangements for the remittance of cash will, in the first instance, be made by this Society, and afterwards arrange with societies availing themselves of these facilities for paying cash to us.
- 8. Societies would greatly oblige, and thereby facilitate the business of this Society, if they will, when advising cash remittances, or any matter relating to payment of cash, do so on a separate sheet of paper.
- 9. LOANS, WITHDRAWAL OF.—Societies, when requiring to withdraw their loans, are respectfully requested to apply at the Head Office, Manchester, for an official form, which is provided for and supplied to societies for the purpose of enabling them to withdraw loans and to state definitely the amount of loan they wish to withdraw. Societies will please note this special request. The Wholesale Society will give due notice when they are prepared to accept new loans.

Bank Department.

CURRENT ACCOUNTS

OPENED ON THE PLAN USUALLY ADOPTED BY OTHER BANKERS.

CUSTOMERS keeping accounts with the Bank by arrangement may have moneys paid to their credit at the

HEAD OFFICES,

BALLOON STREET, MANCHESTER,

AND AT

THE BRANCHES,

WATERLOO STREET, NEWCASTLE-ON-TYNE,

AND

HOOPER SQUARE, LEMAN STREET, WHITECHAPEL, LONDON, E.

CORRESPONDENTS:

THE PIONEERS' SOCIETY, TOAD LANE, ROCHDALE;
THE INDUSTRIAL SOCIETY, SCHOOL STREET, OVER DARWEN;
THE CO-OPERATIVE SOCIETY, HIGH STREET, LEICESTER.

CORRESPONDENTS OF THE FOLLOWING BANKS:

MANCHESTER AND COUNTY BANK,

LONDON AND COUNTY BANK,

NATIONAL PROVINCIAL BANK OF ENGLAND,

UNION BANK OF MANCHESTER,

LANCASHIRE AND YORKSHIRE BANK,

MANCHESTER AND LIVERPOOL DISTRICT BANK,

AND

UNION BANK OF SCOTLAND LIMITED.

The Banking Turnover is £30,000,000 per annum.

Grocery and Provision Departments.

A COMPLETE PRICE LIST of the goods dealt in is issued weekly, the prices being fixed for the day of issue only. These Weekly Lists, which are sent to Co-operative Societies with whom we do business, contain reports and opinions as to the state of the markets, as regards some of the principal articles.

The reports are intended for, and calculated to be of service to, Committees and Managers of Societies, in pointing out the tendency of the markets, and when to buy to advantage.

The following is a brief resume of the chief commodities, and how the "Wholesale" is circumstanced in relation thereto:—

BUTTER AND EGGS—IRISH.

THE arrangements in force for conducting this portion of the business are remarkably well adapted for supplying the same on the most favourable terms.

There are six buyers, attending markets at Cork, Limerick, Kilmallock, Waterford, Tralee, and Armagh. These buyers are gentlemen of the first experience in the trade, and are under the immediate and direct control of the Society—not being merely employed as agents or buyers on commission.

The buyers, although taking up their residences at the places named, attend all the best and noted markets within a radius of twenty or thirty miles, and thus it will be seen that the area covered by their operations embraces a great proportion of the south of Ireland, and some of the most fertile districts of that country.

This Society is by far the most extensive purchaser and shipper of Irish Butter.

BUTTER AND EGGS-DANISH.

The same remarks may be made in this respect as in the case of Irish Butter and Eggs. We have our own buyers stationed at Copenhagen and other centres, and they purchase direct from farmers who are considered the best producers in both Denmark and Sweden, and contract with them for a weekly supply of all they make.

Before shipment, all goods are carefully examined by our representative.

Societies should encourage this Branch by giving us weekly orders for shipment direct, and thus save the cost of warehousing and of carriage from Manchester.

BUTTER-KIEL, AND GERMAN EGGS.

Our arrangements for the purchase of these are similar to those at Copenhagen.

Our own buyer is located at Hamburg, and buys firsthand from the farmers and producers.

Our ready-money system of doing business commands the best terms, and enables us to do a very extensive and satisfactory trade in these articles.

BUTTER AND EGGS-FRENCH.

SUPPLIES of these are obtained fresh weekly, and are carefully selected for the Society, by competent and experienced men, from the best dairies and districts in France.

AMERICAN BUTTER, CHEESE, BACON, HAMS, LARD, FLOUR, APPLES, &c., &c.—NEW YORK BRANCH.

Two buyers are located at New York, whose duty it is to purchase and export the articles sold by the Society which are grown and manufactured in the United States and Canada.

The business done by the Society, and the Capital always at its command, enables its representatives to enter the markets in an independent manner, and places them in a pre-eminent position to exact terms of the first order. These conditions, and the consequent absence of the intermediate dealers, qualify the Society to transfer the goods from where they are produced to the consumer with the least possible addition to the cost.

CHESHIRE CHEESE.

THE Society's buyers visit the best dairies and farms in Cheshire where this is made, and purchase it from the farmers on the spot.

YEAST.

This is imported by the Society direct from the best distillers at Schiedam, Hamburg, and France. It is received in the port of Hull twice in each week—
i.e., Mondays and Thursdays—and distributed from there to the Society's customers.

SUGAR.

The large purchases which the Society is able to make, place it in the best position for securing the utmost advantages from the refiners.

In addition to this, the Society's own buyers are in the centre of operations in Liverpool, London, Greenock, and New York, and are able to obtain information at first hand.

There is a telephone connecting its Liverpool offices with the Central establishment at Manchester, and the buyer in Liverpool is thus in constant telephonic communication with the Central buyer at Manchester, who, being in receipt of the latest and most reliable reports, is enabled to decide which is the most favourable time for making purchases.

Demeraras and other Raws are sampled on arrival, and the most suitable lots selected.

FLOUR, GRAIN, &c.

THE finest brands of Flours are bought direct from the millers in Hungary; our own Registered Brands of Flours are distributed direct from the mill.

The Society's buyers in New York make very extensive purchases of Flour, direct from the millers, in both the United States and Canada.

Grain is bought in large quantities, "to arrive," and Meal of all kinds from the mills direct.

DRIED FRUIT.

Our Dried Fruit buyer goes annually to Greece and Turkey at the season when the fruits are being gathered, and visits the vineyards where the fruits are drying, in order to select the Samples of Currants, Sultanas, and Figs most suitable for Co-operative Societies. These are bought direct from the producer, thereby saving the middlemen's profits, and we get a better selection than could otherwise be obtained.

PEPPER AND SPICES.

WE are large dealers in these articles, and the qualities we supply may be relied upon. We have an extensive and up-to-date grinding plant laid down, and these commodities are ground under our own immediate supervision. Their purity is thus guaranteed.

POTATOES, ONIONS, APPLES, &c.

THERE is a special buyer for these goods, who travels over the districts known to produce the best sorts, and they are bought direct from the farmers when it can be done with advantage. Our buyer also regularly attends the Liverpool Green Fruit Auctions.

Purchases to a very large extent are also made in France, Belgium, and Germany, and the goods are imported to Goole and Garston by the Society's own steamers, which ply regularly between Calais and Goole and Hamburg and Goole on the East, and Rouen and Garston on the West Coast.

BISCUITS, SWEETS, PRESERVES, MARMALADE, AND DRY SOAPS.

THESE goods are manufactured by the Society at their Works, Crumpsall, near Manchester. When impartially judged, the quality compares most favourably indeed with the goods made by other houses of older standing, and devoted to the special manufacture for a long period.

CANNED GOODS.

In regard to this trade we are in a position second to none; our arrangements being such that we have first offers from all the principal packers in America. Salmon, Lobster, Beef, &c., we have specially packed for us under our own brands.

Tea, Coffee, and Cocoa Department,

LEMAN STREET, LONDON, E.

WE have a buyer on the London Market whose exclusive duty it is to select and purchase Teas, Coffees, and Cocoas direct from the Importers.

The excellence of this arrangement, whether viewed from an economical point, or from that of enabling us to efficiently supply Societies with all the numerous varieties and qualities they may desire, is too apparent to need illustration.

Our unlimited command of money and unequalled organisation places us in a position for doing this trade superior to that of any other house.

ASSAM AND OTHER INDIAN TEAS.

THESE are made a special study. Year by year they are increasing in favour with the public; and their greater pungency and strength, as compared with China Teas, are likely to make them still further popular.

CEYLON TEAS.

THE enterprise of the planters in the Island of Ceylon, which started some few years ago, has proved entirely satisfactory, and the various estates are now yielding a much larger quantity with beneficial results to both growers and consumers.

These Teas are rapidly increasing in favour, and the consumption of 1893 shows a very large excess over 1892.

CHINA TEAS.

The decrease in the consumption of China Teas still continues, being about ten millions of lbs. less this season than last. A large proportion consisted of low grade sorts used for blending with other growths to reduce the cost. Nevertheless the finer kinds still find favour with many on account of their delicate flavour and absence of the astringency possessed by those from India and Ceylon.

RED LEAF CONGOUS.

These are again very good; Seu Moos and Paklings, especially, being strong useful Teas.

BLACK LEAF CONGOUS.

NINGCHOWS are better than they have been for some seasons past. Oonfas are a good average crop, but most other descriptions are below the standard of last year.

SCENTED TEAS.

THESE are very well made and fairly free from dust, but generally lack the fine scent of the past season.

GREEN TEAS.

THESE are still being less used than formerly. Very few fine liquoring Teas are obtainable.

BLENDED TEAS.

THE art of blending is now carried to a high pitch of perfection, and to work it successfully requires not only a knowledge of the true affinities of the various growths of India, China, and Ceylon, acquired by a long apprenticeship to tea tasting, but ample capital, large premises, suitable machinery, and a competent staff of well-instructed employés. These have been provided for this section of our Tea and Coffee business.

Extreme care is taken to suit all tastes and districts, and everything that can be thought of to make our arrangements, if possible, still more perfect, will be done.

BULK_MIXED.

THESE are packed in cads, half chests, and chests. The saving of capital and labour, the greater efficiency and satisfaction resulting from scientific blending, and the numerous grades supplied by us, is causing a largely-increased demand, and is making them very popular.

We are now supplying

Indian, Ceylon, and China Blends.

Ceylons and Indians, with a preponderance of Ceylons.

Pure Indians.

Pure Ceylons.

Indians and Ceylons, with a preponderance of Indians.

CHINA PACKET TEAS.

In addition to the excellence of the blending, we are making extra efforts to turn our packets out of a design and appearance that shall command attention and attract the consumer.

Everyone will admit the superiority in appearance of a handsome packet to the ordinary parcel turned out by the shopman when the Tea is weighed over the counter.

By careful attention to the economy of labour, we are able to supply packets, in large and beautiful variety, at a cost less even than would be incurred if made up in the ordinary way in the Store. In order to meet the requirements of those

who prefer the delicate flavoured China Teas, or who cannot drink the strong pungent Indian and Ceylon Teas, we have introduced a pure China Tea in packets.

INDIAN PACKET TEAS.

As we have mentioned before, Indian Teas are rapidly increasing in public favour, and, instead of being mixed with China Teas, are now being extensively used by themselves, so to meet these requirements we have introduced two Indian Packets, one a pure Souchong and the other a pure Pekoe blend.

CEYLON PACKET TEAS.

As these Teas are rapidly and deservedly growing in public favour, on account of their strong, rich, and delicious flavour, we have introduced two Ceylon Packet Teas. We warn our readers that a great many mixtures are offered as Pure Ceylon Teas in leaden packets, and represented as being imported direct from Ceylon in this form. Teas offered in such packets should be avoided, as the finest Ceylon Teas are seldom so imported.

PACKET TEAS NEWLY INTRODUCED.

We have now introduced a Ceylon Blend Packet Tea at 2s. per lb. retail, which is meeting with a good demand. Also three lower priced Teas, viz:—Economic, at 1s. 8d. retail; Household, at 1s. 6d. retail; and Useful, at 1s. 4d. retail, in order that where firms are advertising these grades the Societies may be in a position to serve the same article, and thus avoid the members being led away from dealing at their own Stores.

COFFEES.

PLANTATION shipments total about the same as last year, and the quality is up to the average, whilst prices compared to previous season have been on a more moderate scale.

EAST INDIA arrivals have been rather less than usual, but, quality not being desirable, this kind has been rather neglected.

Costa Rica.—The finer sorts are rather short in supply. Prices have been rather irregular during the earlier part of the season, but later a substantial advance has taken place.

RIO and SANTOS.—These crops are about one million bags short of requirements to meet consumption, but, previous surplus stocks being heavy, prices have been kept within moderate limits.

RAW COFFEES.

Our arrangements for the supply of all kinds in use in the home market are as efficient as they can be possibly made.

Samples, both in the raw and roasted state, are sent with all quotations.

ROASTED COFFEES.

WE have now roasting machinery both in London and Manchester, fitted with all the latest improvements.

These enable us to supply the freshly-roasted article in the most expeditious manner; and great care is taken to finish off the berry to suit the particular requirements of enstoners.

PACKED COFFEE.

GREAT quantities of rubbish have been, and are being, sold under different fancy names. The extraordinary proportions the demand for these articles has assumed have led the Government to impose a special tax on all mixtures, so as to compensate for the loss of revenue on Coffee caused by their consumption.

This will now put the honest trader on a fair footing, and with the great advantage to the consumer that he can make sure of getting a really good and pure article at a reasonable price.

We therefore now sell Coffees of different grades and qualities, both pure and mixed with Chicory, at prices which will be sure to command a good sale.

Our excellent machinery, our economical arrangements, the large scale of our operations, and the well-known beneficial results of division of labour, will enable us to supply Societies cheaper and better than it is possible for them to do for themselves.

COCOA AND CHOCOLATE.

In order to give Societies the opportunity of getting their supplies at the lowest possible cost, we have commenced the production of the various kinds of Cocoa and Chocolate most in demand.

The greatest care is exercised in the manufacture, ingredients of the best quality only being used. The works are fitted with efficient and modern machinery. The Society is thus in a position to manufacture all classes of Cocoas and Chocolates showing better quality and value than any others in the market.

Special attention is drawn to the following:-

PURE CONCENTRATED EXTRACT IN TINS.

This Cocoa is similar in character to the best of the well-known Dutch Cocoas. It possesses great strength, combined with exquisite flavour, and at the same time is most economical in use. We claim for this Cocoa that it is at least as good as any other maker's, at the same time being considerably lower in price.

PURE CONCENTRATED ESSENCE IN PACKETS.

A PREPARATION of the finest selected Cocoa nuts from which the greater part of the fat has been extracted; contains no sugar and no starch. With this powder can be made a cup of Cocoa thin in body, like Tea and Coffee, but with far more nutritive qualities than either of these.

PREPARED BREAKFAST COCOA.

Made of the finest grown nuts and mixed with such other ingredients of the best quality as are necessary to produce a high-class powder, soluble and easy of digestion.

HOMŒOPATHIC COCOA.

WE make three qualities, each of which will be found not inferior to the Cocoas usually sold by this name.

PEARL COCOA.

Great care is taken to produce this popular Cocoa in the best form, and the constantly increasing sales show our efforts to have been successful.

ROCK CHOCOLATE.

A PREPARATION of finest Nibs and best Loaf Sugar; specially recommended.

The following also are made, each in various qualities:-

ROCK COCOA, FLAKE, COCOA NIBS, &c.

CHOCOLATE CONFECTIONERY.

WE are now turning out large quantities of this article in various forms of $\frac{1}{2}$ d., 1d.; and 2d. Cakes, Drops, also Creams and Cream Cakes, and many other varieties of Chocolate Confectionery.

Societies who have not yet tried these are strongly recommended to do so, for, whilst being very wholesome and nutritious both for children and adults, the sale will be found to be a profitable source of revenue, which Societies may as well secure for themselves as leave to the neighbouring confectioner. In our price list are quoted over twenty different sorts of Eating Chocolates to select from.

We have just completed an important and extensive addition to our factory which will enable us largely to augment our output, and at the same time increase the efficiency of our manufacturing operations. We trust, therefore, Societies will continue energetically pushing the sale of our products so as to keep our factory in its enlarged state fully occupied.

We have a stock of show cards, handbills, &c, for advertising purposes, with which we shall be happy to supply Societies on application.

Drapery Department.

CENTRAL SALEROOM AND WAREHOUSE:

DANTZIC STREET, MANCHESTER.

NEWCASTLE BRANCH SALEROOM AND WAREHOUSE:

WATERLOO STREET, NEWCASTLE-ON-TYNE.

LONDON BRANCH SALEROOM AND WAREHOUSE:

LEMAN STREET, LONDON, E.

THE especial attention of Societies is called to the above Department, as we feel sure, if they will only give us a fair comparison, they will find we can do as well for them as any other house in the trade. The Stock consists of—

HOSIERY

OF EVERY KIND AND MAKE.

Wools, Worsted and Yarns (by the best spinners), Linen and Paper Fronts and Collars, Cuffs; Kid, Wool, Lisle, and Silk Gloves; Wool, Union, and Oxford Shirts; Duck Jackets; Men's and Boys' Hats and Caps.

HABERDASHERY AND SMALLWARES

OF EVERY DESCRIPTION AND MAKE.

Silk and Velvet Buttons, Trimmings, Ribbon Velvets, &c.

MILLINERY DEPARTMENT.

We beg to call especial attention to this Department, and would ask your hearty support. The Stock is well assorted, and consists of Felt and Straw Hats, Plain and Fancy Straw Bonnets, in all the newest shapes; Ribbons in

Silk, Satin, and Velvet, all shades; Feathers in Ostrich, Fancy Wings, Birds, Ospreys, &c.; French and English Flowers, rich new shades, mounted and unmounted; Silk and Cotton Laces, Spot Nets, Embroidered Crapes, and Leises; Ornaments, newest designs in Jet, Steel, &c.; Silks, Velvets, and Plushes; Steel, Jet, and Gold Millinery Trimmings, newest styles; Trimmed Millinery, Black and Coloured; Children's Millinery, in Hoods, Hats, and Bonnets.

MANTLES.

We keep a well-assorted Stock, from the best English, French, and German manufacturers.

FANCY GOODS.

Ladies' and Gents' Scarfs, Ribbons, Laces, Stays, Corsets; Umbrellas in Silk, Alpaca, Gloria, Dagmar, and Satin.

DRESS DEPARTMENT.

Black and Coloured Merinos, French Twills, Sateens, Scotch and German Plaids, Black and Coloured Silks and Velvets.

Scotch and Yorkshire Shawls, Wool Handkerchiefs, Felt and other Skirts, &c. Lace, Leno, and Harness Curtains and Blinds, Wool, Damask, &c.

MANCHESTER DEPARTMENT.

This Department comprises every kind of Scotch, Irish, and Barnsley Linens; Bleached Calicoes, Sheets, and Sheetings; Oxford, Harvard, and other Cotton Shirtings; Silesias, and every class of Dyed and Printed Linings; Prints, Cretonnes, Damasks, Window Hollands, Table Covers, Toilet Quilts, Toilet Covers, Table Baizes, Leathers, &c., &c.

The Stocks are bought from the best manufacturers only, and the finish in all cases is carefully attended to. All Goods are sold under their correct quality and numbers, and the widths and lengths guaranteed. These facts should always be considered when comparing the "Wholesale's" prices with those of other firms.

GREY DEPARTMENT.

Wigans, Mexicans, and Twills in various widths and qualities; Yorkshire, Lancashire, and Saxony Flannels; Bath, Bury, and Twill Blankets; Bleached and Grey Sheets; Alhambras of every kind and in all sizes; Union and Wool Shirtings, Linseys, Kerseys, Lambskins, Down Quilts, &c.

Woollen Department,

DANTZIC STREET, MANCHESTER.



WOOLLENS.

N THIS DEPARTMENT THERE IS ALWAYS A FINE SELECTION OF THE NEWEST STYLES IN

WOOLLEN AND WORSTED COATINGS, TROUSERINGS,
AND SUITINGS

OF THE BEST QUALITY AND VALUE, MANY OF WHICH ARE MADE AT OUR OWN MILLS.

READY-MADES

IN MEN'S, YOUTHS', AND BOYS' GARMENTS, OF EVERY DESCRIPTION AND PRICE.

TRIMMINGS.

BLACK AND COLOURED SILESIAS, STRIPED SILESIAS AND SATEENS,

IN ALL COLOURS AND DESIGNS.

BUCKRAMS, CANVASES, JEANS, POCKETINGS,

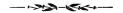
BLACK AND COLOURED ITALIANS AND SERGES

AT ALL PRICES.

For choice quality and value this department cannot be beaten by any house in the trade, and merits the support of every society.

Furnishing Department,

HOLGATE STREET, MANCHESTER.



ILLUSTRATED CATALOGUE AND PRICE LIST SENT FREE OF CHARGE TO ANY SOCIETY ON APPLICATION.



THE STOCK IN THIS DEPARTMENT

CONSISTS OF

FURNITURE,

CARPETS, FLOORCLOTHS, &c.,

HARDWARE,

CLOCKS, WATCHES, AND JEWELLERY,

BRUSHES, AND FANCY GOODS.

WE CAN ALSO SUPPLY

GAS ENGINES, GROCERS' MACHINERY, AND EVERY KIND OF SHOP FITTINGS REQUIRED.

MOST OF

OUR FURNITURE IS NOW MANUFACTURED AT OUR CABINET WORKS,

AND WE ARE PREPARED TO

ESTIMATE FOR SHOP, OFFICE, AND LIBRARY FIXTURES, &c.

Grockery Department,

LONGTON.

Our Depot in the Potteries is stocked with a choice selection of goods of the best manufacture suitable for the requirements of societies. At the same time we beg to call your attention to the following advantages we possess over manufacturers:—

First:

We can supply crates of mixed goods of all kinds-

Earthenware, China, Jet, Rockingham, Glass, Yellow and Brown Ware; also Fancy Vases, &c.

SECONDLY:

With the exception of Tea, Toilet, and Dinner Patterns not stocked, we can supply all general articles and goods from our list promptly, which manufacturers cannot continuously do, as they are certain to run out of stock of some kind very often.

THIRDLY:

We can supply very small quantities of each article—which, with the abovementioned promptitude, will enable you to keep a very small stock, and place it within the power of the smallest store to keep crockery to advantage.

FOURTHLY:

By combining our resources of capital with the services of a buyer on the spot we are able to purchase goods from the best makers, and supply them on as good terms as can be got by dealing direct with the manufacturers, and in greater variety.

FIFTHLY:

In dealing direct there is generally a heavy charge for crates, which will be avoided, as we find crates and credit on return as per page 6 in list.

We have added Sanitary Goods, such as Closets, Lavatory Basins, &c., &c., and can strongly recommend these for price and quality.

We trust that these considerations will induce every society to add crockery to their other business; and as we keep a number of crates on hand ready packed, consisting of China, Earthenware, Rockingham, and Jet Teapots, &c., suitable for beginning in this branch of trade, we shall be pleased to forward one immediately to any society which will intimate their willingness to give it a trial. For assortment of crates, &c., see our Price List, free to any society on application, also our Illustrated Book of designs.

N.B.—All orders to be sent direct to Longton.

Grumpsall Works.

MANUFACTURERS

OF

Biscuits, Sweets, Jam and Marmalade, Dry Soap Powder, &c.

Warehouses:

BALLOON STREET, MANCHESTER;
WATERLOO STREET, NEWCASTLE-ON-TYNE;
LEMAN STREET, LONDON, E.;
AND
CHRISTMAS STREET, BRISTOL;

WHERE ALL ORDERS MUST BE SENT.

To supply some of the requirements of the Retail Stores, this Society established these Works in 1872. By the rules of the Society the custom of the private trader is refused, and none but registered Co-operative Societies are supplied. The Retail Stores, members of the Wholesale Society, are the proprietors of these Works, and, as such, the exclusion of private trade is a regulation made by them. We have, therefore, a just claim upon the Stores that they should support their own Works, whilst we acknowledge that they have a claim upon us to supply a pure and serviceable article, as good and as cheap, of its kind and quality, as can be had elsewhere.

THE BISCUITS ARE MADE OF THE PUREST MATERIALS,

Nearly all the flour used being of co-operative manufacture. The machinery employed is of the latest style and most perfect character. We have recently made considerable additions in this department—our productive capacity being now thrice as great as it was before. The Biscuits produced are such that we confidently invite comparison, and urgently solicit all Co-operative Societies to give them a trial.

IN THE MAKING OF SWEETS

We boil the best of sugar (all cane); employ the best skill; use only vegetable colouring matter, all of which is perfectly harmless; and we can confidently challenge analysis. Our Sweets need only be tried to be approved.

LOZENGES.

Our machinery is of the newest and most approved construction for the making of Lozenges in all the varieties mostly in request. The difference in value between one Lozenge and another depends almost entirely on the quantity, strength, purity, and delicacy of the flavouring used. In these particulars we aim to excel, and we invite comparison. We trust our friends will give this department a trial, and have no doubt the article produced will bear comparison with the productions of the best makers.

JAMS, JELLIES, AND MARMALADE

Are made of the best fruit procurable, and Cane Sugar is used exclusively.

CITRATE OF MAGNESIA, AND SHERBET, OR LEMON KALI,

Arc sometimes pressed by makers upon the attention of the Stores as "a special cheap quality." They can, however, be made "cheap" only by keeping out the Acids, which are expensive, and putting in more sugar. This sort of cheapness makes the article more agreeable to some tastes, but certainly much less useful and less costly. We aim at making the C.W.S. Citrate and Sherbet the best value.

"WHEATSHEAF" BAKING POWDER,

In 1oz. and 2oz. Packets,

Has been tested in practical use with that of the best makers, and with favourable results.

Several cases have recently occurred in which retail grocers have been heavily fined, in addition to the disagreeable public exposure, in consequence of selling Baking Powder containing a large proportion of Alum instead of Tartaric Acid. Our friends will find by reference to the C.W.S. Price List, that Alum costs 9s. per cwt., and Tartaric Acid costs 140s. per cwt. Thus, to make money, the manufacturer produces an article which, used in the making of bread or other eatables, yields a food which is injurious to health.

C.W.S. "WHEATSHEAF" BAKING POWDER

DOES NOT CONTAIN ANY ALUM.

C.W.S. "WHEATSHEAF" BLACK LEAD,

In 1oz. Oblong Blocks, and 1oz. and 2oz. Round Blocks.

We Block the very best of Lead, and our produce cannot be excelled in the brilliancy and polish it imparts. Our Loose Black Lead, in 1oz. and 2oz. packets, we can confidently recommend.

DRY SOAP.

In the manufacture of Dry Soap it is usual to introduce cheap ingredients which have no cleansing properties, and only serve to increase the bulk and the weight, thus catching the unwary by giving them for their money a large packet of small value. We can assure our friends that we use no ingredients which have not valuable detergent or cleansing properties, and our Dry Soap will bear comparison with that of the best makers. This article has been subjected to the test of analysis by the Manchester City Analyst, and his figures show that for detergent value or cleansing power the C.W.S. Dry Soap Powder stands in front when compared with the analysis of three other samples from makers of highest repute and longest standing.

Wheat Sheaf Works,

WIGSTON ROAD, LEICESTER.



Warehouses:

BALLOON STREET, MANCHESTER;
WATERLOO STREET, NEWCASTLE-ON-TYNE;
LEMAN STREET, LONDON, E.; AND CHRISTMAS STREET, BRISTOL.

Salerooms:

LEEDS, HUDDERSFIELD, NOTTINGHAM, BLACKBURN, BIRMINGHAM, NORTHAMPTON, AND CARDIFF.

THE CO-OPERATIVE WHOLESALE SOCIETY LIMITED

MANUFACTURE ALMOST EVERY KIND OF

BOOGS AND SHOES

AT THE ABOVE WORKS, IN

HAND SEWN, GOODYEAR WELTS,

MACHINE SEWN, FAIR STITCHED, SEW ROUNDS, RIVETTED, STANDARD SCREWED,

WOOD PEGGED, &c., &c.

The highest Trade Union Wages paid.

The very best materials used.

Work carried on under best Sanitary Conditions.

Trade rapidly Developing, as the Goods give every satisfaction.

The wants of every class of the community supplied.

The Fitting of the Goods are unequalled for Comfort, and the Quality unrivalled for Durability.

HONEST GOODS,

HONEST WAGES,

HONEST PRICES.

WE CAN HIGHLY RECOMMEND THESE

NAMED GOODS:-



LADIES' AND GENT'S CLOTH GAITERS

MADE IN

EVERY SHAPE AND SHADE OF CLOTH.

Samples on Application to Manchester, Newcastle, and London.



ALL OUR PRODUCTIONS BEAR THE SOCIETY'S TRADE MARK.

IN OUR ILLUSTRATED LIST

We give the numbers of those usually kept in stock at Manchester, as well as at the branch warehouses in Nowcastle and London. Societies requiring any kind of goods not mentioned in our *List*, we shall be glad to make for them upon receiving instructions.

Although there is a growing demand for Low-priced Goods, which we endeavour to meet, we have in no case departed from the principle which has been adhered to since the commencement of these Works—of always using material of known excellence, and discarding the use of all substitutes for honest leather.

The Continued and Growing Demand for our Productions

WARRANTS US IN STATING THAT
for quality and price they are equal, if not superior, to anything supplied by the

general trade. In addition to the wholesale trade, we are now making about three hundred pairs of Bespoke and Measured Work weekly, and every effort is made to supply these orders promptly; but many delays, misfits, and mistakes would be avoided if Societies would only follow our instructions for measurement. A draft of the foot should in all cases be taken, and sent with the correct measurement. Societies should use our Order Books specially arranged for this

measurement. Societies should use our Order Books specially arranged for this department, which are only 10d. each, and can be obtained at either the Central or Branch Warehouses. Cut Soles for Repairing purposes supplied in any quantity or quality. Price List and Samples sent on application.

Orders for Regular Stock should be sent to

1, BALLOON STREET, MANCHESTER;
WATERLOO STREET, NEWCASTLE-ON-TYNE;
LEMAN STREET, LONDON, E.;

And, to prevent delay, orders for

BESPOKE OR MEASURED WORK

MUST BE SENT TO

WHEAT SHEAF WORKS, LEICESTER, direct.

Co-operators and Trade Unionists wishing to promote work under the best conditions, should ask for

Whearsheaf Brand of Boors & Shoes

AND TAKE NO OTHER.

Keckmondwike Boot & Shoe Works.

Warehouses:

BALLOON STREET, MANCHESTER;

WATERLOO STREET, NEWCASTLE-ON-TYNE;

LEMAN STREET, LONDON, E.; CHRISTMAS STREET, BRISTOL.

Salerooms:

LEEDS, HUDDERSFIELD, NOTTINGHAM, BLACKBURN, BIRMINGHAM, NORTHAMPTON, AND CARDIFF.



Orders must be addressed either to Central Office, or to the Branch Establishments at Newcastle or London.

THESE Works having been considerably enlarged, we are now in a position to double our production, and we appeal to societies to give us their support.

The Goods we make are Men's and Youths' Strong Nailed, suitable for miners, quarrymen, farm labourers, masons, joiners, railway servants, &c. We also make in Men's and Boys' a quantity of Medium Strength with Smooth Bottoms, with nails driven up, suitable for a working boot in lighter occupations.

We also make Women's Strong Laced Mill Boots. In the manufacture of our goods we pay special attention to the selection of material used for the inner sole, which is the foundation of a strong boot, and on which depends entirely the wear, and when re-soled and heeled gives the repairer a good foundation to work upon. This very important feature applies to the whole of the goods we make, from the lowest priced ones upwards.

We desire it to be fully understood that none of our manufactures contain paper or composition leather board, but solid leather; and therefore, if in some instances our prices are found to be somewhat higher than goods of similar appearance, you may rely upon it the difference of the price is in the quality.

CURRYING DEPARTMENT.

The above Department is now in full working order, and we are able to supply societies with any of the following Goods:—

LEVANT HIDES.

- ,, Kips. Kip Shoulders.
- ,, Horse Shoulders.
- MEMEL HIDES.
 - " HIDE BUTTS. " KIPS.
- SATIN HIDES. ,, HIDE SHOULDERS.
- SATIN KIPS.
- " KIP SHOULDERS. WAXED HIDE BUTTS.
 - " KIP BUTTS. " E. J. CALF.

Durham Soap Works,

GILESGATE.

Salerooms and Warehouses:

BALLOON STREET, MANCHESTER;

WATERLOO STREET, NEWCASTLE-ON-TYNE;

LEMAN STREET, LONDON, E.;

CHRISTMAS STREET, BRISTOL;

LEEDS, HUDDERSFIELD, NOTTINGHAM, BLACKBURN, BIRMINGHAM, NORTHAMPTON, AND CARDIFF.

-->>

THESE Works were established October, 1874, to enable the Society to supply its members with a pure article. We can, without fear of contradiction, say that the Soap supplied from these Works is equal to any supplied by the best manufacturers, combining all the qualities of a substantial cleaning agency, and being manufactured from the very best raw material.

We supply the following qualities:

WHEATSHEAF PALE
GOLDEN PALE
FIRST
SECOND
XX
FINE
GOLDEN WINDSOR
BEST EXTRA PALE
X
FINE
SCOND
BEST MOTTLED
SECOND
S

HONEY SOAP, 1lb., ½lb., and ‡lb. Tablets.
ALMOND ,, ",", ",", ","

SPECIALITIES :-

CARBOLIC SOAP.

CONGRESS SOAP (in Tablets).

WHEATSHEAF TABLETS.

PARAFFIN SOAP.

"C. W. S. CLEANSER."

LILY SOAP.

ALL CARRIAGE PAID.

For prices, see Society's Weekly Price List. Samples will be sent on application.



We are convinced that a much larger trade might be done if societies would only give this Soap a fair trial. The Co-operative Societies in the Newcastle district, who obtain their supplies chiefly from this source, find the Soap gives entire satisfaction to their members. We therefore ask societies to support their own production, instead of obtaining their supply from other makers, who have travellers ever on the road waiting upon store managers seeking to influence them to buy their Soap, and not that of their own manufacture.

CO-OPERATORS, SUPPORT CO-OPERATIVE PRODUCTION.

Livingstone Mills,

BATLEY, YORKSHIRE.

WOOLLEN MANUFACTURERS.

Salerooms and Warehouses:

1, BALLOON STREET, MANCHESTER; WATERLOO STREET, NEWCASTLE-ON-TYNE; AND LEMAN STREET, LONDON, E.

Orders should be sent either direct to the Central Office, 1, Balloon Street, Manchester, or to the Branches, Waterloo Street, Newcastle, and Leman Street, London.

WOOLLENS AND WORSTEDS.

THE Productions of our Batley Mill are not to be surpassed in either Quality, Style, or Price.

We are now manufacturing some of the choicest patterns in

FANCY WORSTED TROUSERINGS AND TWEEDS.

Our INDIGO BLUE SERGES AND WOADED BLACK WORSTED COATINGS are so well known throughout the Stores as to need no further description.

We have lately added to our Weaving Plant some of the newest and most efficient Fast Looms and Beaming Machinery, so that we are now in a position to meet satisfactorily the increasing demands of our customers.

PATTERN CARDS WILL BE SENT ON APPLICATION.

CO-OPERATORS! Ask at your STORES for BATLEY CLOTHS.

See that you get them, and don't be persuaded to take any other.

Productive Societies

FOR WHICH THE

CO-OPERATIVE WHOLESALE SOCIETY ARE AGENTS.

The Agricultural and Horticultural Association Limited.

Reliable Farm and Garden Seeds; special Manures for Fruit, Vegetable, and Garden Crops.

The Airedale Manufacturing Society Limited.

Manufacturers of Black Alpaca Lustres, Black Brilliantines, Black and Coloured French Twills, Mohair Glacés, Black and Coloured Persian, Russel and Cable Cords, Wool Serges, Black Orleans, Black and Coloured Italians, Black and Coloured Figures, Mottles, Mixtures. Stripes, &c., &c.

The Coventry Co-operative Watch Manufacturing Society Limited.

The Watches supplied by this Society we can well recommend as being of uniform good quality, and it engages to keep them in good going order for twelve months from date of purchase. We trust that individuals, through their societies, will give us their orders, so that we may do a larger trade in this department. Watches, from £2. 10s. to £25 each.

The Dudiey Nail Manufacturing Society Limited.

The Dudley Productive Co-operative Society Limited.

Manufacturers of all kinds of Galvanised Goods, Buckets, Nails, &c.

The Eccles Industrial Manufacturing Society Limited.

Manufacturers of Toilet, Alhambra, and Damask Quilts, by hand and power; also Twill Sheetings, all of the best quality, and in tastily-arranged patterns.

Having repeatedly compared the Quilts produced by the Eccles Manufacturing Society with the Quilts made by other firms, we are thoroughly satisfied that those made by them are equal, and, when cost is considered, superior, to those sold by other makers. All Toilet and Honeycomb Quilts sold by the Co-operative Wholesale Society are made by the Eccles Manufacturing Society, and all members, when purchasing, should ask for the Eccles Quilts, and insist upon having them.

The Hebden Bridge Fustian Manufacturing Society Limited.

Manufacturers of Cords, Moles, Velveteens, Imperials, Diagonals, Sateens, Twills, &c., in every variety and colour; Fustian Clothing, ready-made and to order. Samples and prices on application.

The Heckmondwike Manufacturing Society Limited.

Manufacturers of Carpets, Horse Cloths, Blankets, &c.

The Lancashire and Yorkshire Co-operative Productive Society Limited.

Manufacturers of Flannels, plain and coloured, of guaranteed purity and excellence of manufacture, combined with reasonable prices. Societies ordering sufficiently large may, if desired, have the goods fluished to suit their special markets.

The Leek Silk Twist Manufacturing Company Limited.

The Leicester Elastic Web Manufacturing Society Limited.

The Leicester 2nd Hosiery Manufacturing Society Limited.

We are now their sole agents, and keep a stock of all classes of goods made by them.

The Midland Nail Makers' Association Limited.

The Paisley Manufacturing Society Limited.

Manufacturers of Saxony Wool Shawls and Plaids, in plain and fancy checks, Saxony Wool Handkerchiefs and Scarfs, Dress Tartans, and Twilled and Plain Wool Shirtings. A large variety of patterns to select from.

The Rochdale Pioneers' Society Limited.

Manufacturers of Tobacco, Snuffs, &c.

The Sheepshed Hosiery Manufacturing Society Limited.

The Sheffield Co-operative Cutlery Manufacturing Society Limited.

Regular Steam Service

BETWEEN

GARSTON (LIVERPOOL) & ROUEN.

OFFICES:

CENTRAL: BALLOON STREET, MANCHESTER.

LIVERPOOL: 7, VICTORIA STREET.

GARSTON: NEW DOCK. ROUEN: 2, RUE JEANNE D'ARC.

"UNITY"

OR OTHER STEAMER DESPATCHED FORTNIGHTLY.

EXTRA STEAMERS TO SUIT THE REQUIREMENTS OF THE TRADE.

Goods carried at through rates, with quick despatch, between Liverpooi, Manchester, Birmingham, and North of England Towns, and Paris, Lyons, Beauvais, Lille, and North and East of France.

For Rates of Freight and other information, apply to the Society's offices, as above.

On the outward voyages from Garston, in addition to sundry goods, the shipments consist largely of caustic soda, bleaching powder, and other chemicals from Widnes and St. Helens districts—machinery from Manchester and Bolton and neighbouring towns—American and East Indian cotton which has arrived at Liverpool and been ordered for shipment to Rouen, the principal seat of cotton industry in France. There are also considerable shipments of copper. On arrival of the goods at Garston they are taken directly alongside our steamers, in the railway wagons, and then by means of powerful hydraulic cranes they are transferred from the wagons to the hold of the steamers. By this means shippers may rely on the shipments being effected with prompt despatch, and we avoid the risk of damage which sometimes occurs when cartage is employed.

At Rouen the steamers are berthed in close proximity to the railway line, so that goods can be landed from the steamers direct on to the railway wagons. Or when consignees order goods to be forwarded from Rouen by water, the river barges are loaded alongside the steamer, and these are towed by powerful steam tugs up the Seine to Paris. Providing no exceptional delay occurs, the transit up the river occupies little over two days.

On the return journey from Rouen the steamer's cargo principally consists of loaf sugar coming from Paris, also sugar in bags, chemicals, dye stuffs, flour, field seeds, metals, and besides there are sundry goods in cases, such as glassware, toys, haberdashery, and articles de Paris.

In fine weather the sea voyage between Garston and Rouen occupies about three days. No effort is spared to ensure the steamer being despatched punctually from each port on the appointed dates, and as by this means a regular service is maintained, we are favoured with a large traffic from general shippers.

Goole and Calais Line of Steamers.

CENTRAL OFFICES: 1, BALLOON STREET, MANCHESTER.

GOOLE OFFICES: STANHOPE STREET.

CALAIS OFFICES: RUE DE MADRID.

Weekly Service between Goole & Calais.

THE new powerful and fast steamships "PIONEER," "PROGRESS," or other steamer, will (weather and other casualties permitting) sail regularly between Goole and Calais, leaving Goole every Wednesday and Calais every Saturday. This line is in direct communication at Goole with the L. & Y. and N. E. Railway Companies, whose wagons can be loaded direct from the steamers, thereby ensuring despatch with the least risk of damage to the goods carried by the line.

The Aire and Calder Navigation Company run their canal boats alongside the Company's steamers, so that all who prefer their goods carried by canal can have them loaded direct into the Aire and Calder Company's boats and *vice versa*.

At Calais the steamers are berthed near the Custom House and opposite the goods warehouse of the North of France Railway Company, where the goods can be stored waiting the arrival of the steamers.

The North of France Railway Company have a liue of rails laid to the place where the steamers are berthed, so that goods entrusted to this line can be safely and quickly despatched to their destination. The Goole and Calais route is the best and cheapest between the great manufacturing centres of the North of England and those of the North of Fance; and shippers in those districts will find it to their advantage to give this line a trial.

GOODS ARE CARRIED AT THROUGH RATES

FROM ANY PART OF THE UNITED KINGDOM TO THE PRINCIPAL CITIES

OF FRANCE AND THE CONTINENT.

For Rates of Freight and other information apply as above.

Goole & Kamburg Line of Steamers.

CENTRAL OFFICES: 1, BALLOON STREET, MANCHESTER.

GOOLE OFFICES: STANHOPE STREET.

HAMBURG BROKER: D. FUHRMANN (NISSLE AND GÜNTHER SUCCESSOR),
DOVENHOF, HAMBURG.

Regular Service between GOOLE & HAMBURG.

THE POWERFUL AND FAST STEAMSHIPS

"LIBERTY," "EQUITY," and "FEDERATION,"

OR OTHER STEAMERS,

WILL (WEATHER AND OTHER CASUALTIES PERMITTING) SAIL REGULARLY
BETWEEN GOOLE AND HAMBURG,

LEAVING EACH PORT TWICE A WEEK.

Extra Steamers to suit the requirements of the Trade.

This line is in direct communication at Goole with the L. and Y. and N. E. Railway Companies, whose wagons can be loaded direct from the steamer, without the risk or expense of cartage. This is of great importance to shippers, as it ensures a quick delivery of their goods in a clean and undamaged condition.

The Aire and Calder Navigation Company run their canal boats alongside the Company's steamers, so that all who prefer their goods carried by canal can have them loaded direct into the Aire and

Calder Company's boats, and vice versa.

At Hamburg the steamers are berthed alongside the warehouses of the Railway Company, where the goods can be stored waiting the arrival of the steamers.

GOODS ARE CARRIED AT THROUGH RATES

FROM ANY PART OF THE UNITED KINGDOM TO THE PRINCIPAL CITIES OF GERMANY AND THE CONTINENT.

For Rates of Freight and other information apply as above.

MEETINGS AND OTHER COMING EVENTS IN CONNECTION WITH THE SOCIETY IN 1894.

Jan. 27—Saturday....Nomination Lists: Last day for receiving.

Feb. 27—Tuesday Voting Lists: Last day for receiving.

Mar. 3—Saturday....Newcastle and London Branch and Divisional Quarterly Meetings.

Mar. 10—Saturday....General Quarterly Meeting-Manchester.

Mar. 24—Saturday....Quarter Day.

April 28—Saturday....Nomination Lists: Last day for receiving.

May 29—Tuesday Voting Lists: Last day for receiving.

June 2—Saturday....Newcastle and London Branch and Divisional Quarterly Meetings.

June 9—Saturday....General Quarterly Meeting—Manchester.

June 23—Saturday....Quarter Day.

July 28—Saturday....Nomination Lists: Last day for receiving.

Aug. 28-Tuesday Voting Lists: Last day for receiving.

Sept. 1—Saturday....Newcastle and London Branch and Divisional Quarterly Meetings.

Sept. 8-Saturday....General Quarterly Meeting-Manchester.

Sept. 22—Saturday....Quarter Day.

Oct. 27—Saturday....Nomination Lists: Last day for receiving.

Nov. 27-Tuesday Voting Lists: Last day for receiving.

Dec. 1—Saturday....Newcastle and London Branch and Divisional Quarterly Meetings.

Dec. 8-Saturday....General Quarterly Meeting-Manchester.

Dec. 22—Saturday....Quarter Day.

PRINCIPAL EVENTS IN CONNECTION WITH THE CO-OPERATIVE WHOLESALE SOCIETY

SINCE ITS COMMENCEMENT.

YEAR.	DAY.	EVENTS.
1863	Aug. 11	Co-operative Wholesale Society enrolled.
1864	Mar 14	Co-operative Wholesale Society commenced business.
1866	April 24	Tipperary Branch opened.
		Kilmallock Branch opened.
1869	Mar. 1	Balloon Street Warehouse opened.
		Limerick Branch opened.
1871	Nov. 26	Newcastle-on-Tyne Branch opened.
1872	July 1 .	Manchester Boot and Shoe Department commenced.
		. Bank Department commenced.
		Crumpsall Works purchased
		. Armagh Brauch opened.
		. Manchester Drapery Department established.
		. Waterford Branch opened.
		. Cheshire Branch opened.
		. Leicester Works purchased.
,,		. Insurance Fund established.
,,		. Leicester Works commenced.
		. Tralee Branch opened.
		. London Branch established.
		. Durham Soap Works commenced.
		. Liverpool Purchasing Department commenced.
		. Manchester Drapery Warehouse, Dantzic Street, opened.
		. Newcastle Branch Buildings, Waterloo Street, opened.
		. New York Branch established.
		. S.S. "Plover" purchased.
		. Manchester Furnishing Department commenced.
		. Leicester Works first Extensions opened.
	•	. Cork Branch established.
		. Land in Liverpool purchased.
		. S.S. "Pioneer," Launch of.
		. Rouen Branch opened.
		. S S. "Pioneer," Trial trip.
		. Goole Forwarding Department opened.
		. S.S. "Plover" sold.
		. Heckmondwike Boot and Shoe Works commenced.
		. London Drapery Department commenced in new premises,
,,	- I	Hooper Square.
1881	June 6.	. Copenhagen Branch opened.

PRINCIPAL EVENTS IN CONNECTION WITH THE CO-OPERATIVE WHOLESALE SOCIETY

SINCE ITS COMMENCEMENT .- CONTINUED.

Year	R.	DA	Υ.	EVENTS.
1880		July	27	 S.S. "Cambrian" purchased.
1882		Oct.	31	 Leeds Saleroom opened.
,,		Nov.	1	 London Tea and Coffce Department commenced.
1883		July	21	 S.S. "Marianne Briggs" purchased.
				Hamburg Branch commenced.
,,		May	31	 Leicester Works second Extensions opened.
,,		June	25	 Newcastle Branch—New Drapery Warehouse opened.
,,		Sept.	13	 Commemoration of the Society's Twenty-first Anniversar at Newcastle-on-Tyne and London.
,,		,,	20	 Commemoration of the Society's Twenty-first Anniversar
,,		"		at Manchester.
,,		,,	29	 Bristol Depôt commenced.
,,				S.S. "Progress," Launch of
				Fire—Tea Department, London.
1886				Nottingham Saleroom opened.
**				Longton Crockery Depôt opened.
,,		-		S.S. "Federation," Launch of.
		Mar.	14	 Batley Mill commenced.
,,				S.S "Progress" damaged by fire at Hamburg.
,,		July	21	 Manchester—New Furnishing Warehouse opened.
,,				Heckmondwike - Currying Department commenced.
,,		Nov.	2	 London Branch—New Warehouse opened.
,,		,,	2	 Manufacture of Cocoa and Chocolate commenced.
				S.S. "Equity," Launch of.
,,		Sept.	8	 S.S. ' Equity," Trial trip.
,,				S.S. "Cambrian" sold.
,,		Oct.	14	 Fire—Newcastle Branch
1889		Feb.	18	 Enderby Extension opened.
٠,		Nov.	11	 Longton Depôt New Premises opened.
1890				S.S. "Liberty," Trial trip.
,,		Oct.	22	 Northampton Saleroom opened.
1891				Dunston Corn Mill opened.
,,		Oct.	22	 Cardiff Saleroom opened.
"		Nov.	4	 Leicester New Works opened.
,,				Aarhus Branch opened.
1892		May	5	 Birmingham Saleroom opened.
1893		,,	8	 Broughton Cabinet Factory opened.

LIST OF TELEGRAPHIC ADDRESSES.

CENTRAL, MANCHESTER: "WHOLESALE, MANCHESTER." NEWCASTLE BRANCH: "WHOLESALE, NEWCASTLE-ON-TYNE." LONDON BRANCH: "CO-OPERATIVE, LONDON." BRISTOL DEPÔT: "WHOLESALE, BRISTOL." LIVERPOOL OFFICE AND WAREHOUSE: "WHOLESALE, LIVERPOOL." LEEDS SALE AND SAMPLE ROOMS: "WHOLESALE, LEEDS." CRUMPSALL WORKS: "BISCUIT, MANCHESTER." CARDIFF SALEROOM: "WHOLESALE, CARDIFF." LEICESTER SHOE WORKS: "WHOLESALE, LEICESTER." HECKMONDWIKE SHOE WORKS: "WHOLESALE, HECKMONDWIKE." BATLEY WOOLLEN MILL: "WHOLESALE, BATLEY." LEEDS READY-MADES FACTORY: "SOCIETY, LEEDS." LONGTON CROCKERY DEPÔT: "WHOLESALE, LONGTON (STAFF.)." SOAP WORKS, DURHAM: "WHOLESALE, DURHAM." CORN MILL, DUNSTON-ON-TYNE: "WHOLESALE, DUNSTON, GATESHEAD." NORTHAMPTON SALEROOM: "WHOLESALE, NORTHAMPTON."

TELEPHONIC COMMUNICATION.

Our Premises in the following towns are directly connected with the Local Telephone System:—

MANCHESTER—GENERAL OFFICES	NOS. 802
" " " " " " " " " " " " " " " " " " "	
" DRAPERY DEPARTMENT	
" FURNISHING DEPARTMENT	1755
CRUMPSALL—SUB TO MANCHESTER GENERAL OFFICE	
BROUGHTON—CABINET WORKS	,
NEWCASTLE	
TONEON GROGERY IN PROPERTY.	
LONDON - GROCERY AND PROVISION	
" DRAPERY	
" TEA DEPARTMENT	
LIVERPOOL	
GARSTON	
GOOLE	
LEICESTER	235
LONGTON	
DUNSTON	1261

Post-office System. † New. All others National Telephone Company.

CO-OPERATIVE WHOLESALE SOCIETY LIMITED.

PAST MEMBERS OF GENERAL COMMITTEE.

Councillor Smithies Rochdale 1863 August 1869 May 1864 March 1866 May 1869 Dec. 1866 March 1865 Nov. 1874 May 1885 Dec. 1886 March 1866 May 1869 Dec. 1866 March 1866 May 1869 Dec. 1866 March 1866 May 1869 Dec. 1866 March 1866 March 1866 May 1869 Dec. 1866 March 1866 May 1869 Nov. 1869 Nov. 1869 Nov. 1869 March 1866 May 1869 Nov. 1860 Nov. 18	NAME.	ADDRESS.	ELECTED.	RETIRED.
John Hilton	†Councillor Smithies	Rochdale	1863 August 1863 August	1867 May.
John Hilton	Edward Hooson	Manchester		
Joseph Thomasson	John Hilton	(1863 August 1863 August	1868 Nov. 1864 March.
Charles Howarth	*James Crabtree	Heckmondwike	1885 Dec	1886 March.
J. Neild	-	()	1866 May	1869 Nov.
Thomas Cheetham Rochdale 1867 Nov. 1868 Nov.		. (
§E. Longfield Manchester 1867 May 1867 Nov. †J. M. Percival Manchester 1868 Feb. 1868 May. Isaiah Lee Oldham 1867 Nov. 1868 Nov. §D. Baxter Manchester 1868 May. 1871 May. J. Swindells Hyde 1868 Nov. 1869 Nov. T. Sutcliffe Todmorden 1868 Nov. 1869 Nov. †James C. Fox Manchester 1868 Nov. 1871 May. †W. Marcroft Oldham 1869 Nov. 1871 May. †Boy Over Darwen 1869 Nov. 1871 Nov. R. Holgate Over Darwen 1869 Nov. 1871 Nov. W. Moore Batley Carr 1870 August 1870 Nov. † Titus Hall Bradford 1871 May	J. Neild	Mossley		
Tana			1867 May	1867 Nov.
\$D. Baxter. Manchester 1868 May 1871 May J. Swindells Hyde 1868 Nov. 1869 Nov. T. Sutcliffe Todmorden 1868 Nov. 1869 Nov. 1869 Nov. 1869 Nov. 1869 Nov. 1869 Nov. 1868 Nov. 1869 Nov. 1871 May W. Marcroft Oldham 1869 May 1871 May 1	†J. M. Percival	Manchester	1870 Feb	1872 August.
T. Sutcliffe Todmorden 1868 Nov. 1869 Nov. James C. Fox. Manchester 1868 Nov. 1871 May. W. Marcroft Oldham 1869 May 1871 May. Thomas Pearson Eccles 1869 Nov. 1871 Nov. R. Holgate Over Darwen 1869 Nov. 1870 Nov. A. Mitchell Rochdale 1870 August 1870 Nov. W. Moore Batley Carr 1870 Nov. 1871 August Titus Hall Bradford 1871 May 1874 Dec. B. Hague Barnsley 1871 May 1873 May. Thomas Shorrocks Over Darwen 1871 May 1871 Nov. *R. Allen Oldham 1871 August 1877 Nov. *R. Allen Oldham 1871 August 1877 Nov. *R. Allen Oldham 1871 August 1872 Feb. Job Whiteley Halifax 1873 Feb. 1874 Feb. *Thomas Hayes Failsworth 1871 Nov. 1873 August Jonathan Fishwick Bolton 1871 Nov. 1873 F	§D. Baxter	Manchester	1868 May	1871 May.
Thomas Pearson Barnsley 1871 May 1870 Nov 1871 Nov 1871 May 1870 Nov 1871 May 1872 May 1873 May 1873 May 1873 May 1874 Dec 1871 May 1873 May 1873 May 1874 Dec 1871 May 1873 May 1873 May 1874 Dec 1871 May 1871 Nov 1871 May 1871 Nov 1871 May 1871 Nov 1871 May 187				
W. Marcroft				
R. Holgate Over Darwen 1869 Nov. 1870 Nov. A. Mitchell Rochdale 1870 August 1870 Nov. W. Moore Batley Carr 1870 Nov. 1871 August † Titus Hall Bradford (1871 May 1874 Dec. 1871 May 1873 May 1873 May 1874 Dec 1884 Sept. Thomas Shorrocks Over Darwen 1871 May 1871 Nov. †R. Allen Oldham 1871 August 1877 April. Job Whiteley Halifax (1871 August 1872 Feb. †Thomas Hayes Failsworth 1871 Nov. 1873 August Jonathan Fishwick Bolton 1871 Nov. 1872 Feb. J. Thorpe Halifax 1872 Feb. 1873 Feb. Halifax 1872 Feb. 1873 Feb.				
A. Mitchell Rochdale 1870 August 1870 Nov. W. Moore Batley Carr 1870 Nov. 1871 August 1871 May 1874 Dec. 1877 June 1885 Dec. 1877 June 1885 Dec. 1877 June 1885 Dec. 1877 June 1885 Dec. 1871 May 1873 May. 1873 May. 1874 Dec. 1884 Sept. 1874 Dec. 1884 Sept. 1871 May 1871 Nov. 1871 Nov. 1871 Nov. 1872 Feb. 1874 Feb. 1873 Feb. 1874 Feb. 1871 Nov. 1873 August Jonathan Fishwick Bolton 1871 Nov. 1873 August J. Thorpe Halifax 1872 Feb. 1873 Feb. 1874 Feb. 1876 June.				
W. Moore Batley Carr 1870 Nov. 1871 August ‡Titus Hall Bradford 1871 May 1874 Dec. B. Hague Barnsley 1871 May 1885 Dec. Barnsley 1871 May 1873 May Thomas Shorrocks Over Darwen 1871 May 1871 Nov. ‡R. Allen Oldham 1871 August 1877 April. Job Whiteley Halifax 1871 August 1872 Feb. ‡Thomas Hayes Failsworth 1871 Nov. 1873 August Jonathan Fishwick Bolton 1871 Nov. 1872 Feb. J. Thorpe Halifax 1872 Feb. 1873 Feb. #W. Labracan Bolton 1872 Feb. 1876 June.				
† Titus Hall Bradford 1871 May 1874 Dec. B. Hague Barnsley 1871 May 1885 Dec. Thomas Shorrocks Over Darwen 1871 May 1873 May †R. Allen Oldham 1871 May 1871 Nov. Job Whiteley Halifax 1871 August 1872 Feb. †Thomas Hayes Failsworth 1871 Nov. 1873 August Jonathan Fishwick Bolton 1871 Nov. 1873 August J. Thorpe Halifax 1872 Feb. 1872 Feb. Halifax 1872 Feb. 1873 Feb. 1872 Feb. 1873 Feb. 1874 Feb. 1874 Feb. 1873 August 1872 Feb. 1874 Feb. 1872 Feb. 1873 Feb. 1874 Feb. 1873 Feb. 1874 Feb. 1874 Feb. 1875 Feb. 1875 Feb. 1875 Feb. 1876 June. 1876 June.				
B. Hague Barnsley 1871 May 1873 May 1874 Dec. 1871 May 1873 May 1874 Dec. 1874 Dec. 1884 Sept. 1874 Allen 1871 May 1871 Nov. 1871 August 1871 August 1871 August 1871 August 1872 Feb. 1873 Feb. 1874 Feb. 1871 Nov. 1873 August 1872 Feb. 1874 Feb. 1875 Feb. 1875 Feb. 1876 June. 1872 Feb. 1876 June. 1876 June.		1		
Barnsley 1874 Dec. 1884 Sept. Thomas Shorrocks Over Darwen 1871 May 1871 Nov. 1871 August 1872 April. 1874 Halifax 1873 Feb. 1874 Feb. 1874 Feb. 1871 Nov. 1873 August 1872 Feb. 1874 Feb. 1875 Feb. 1876 June. 1877 June	Titus Hall	Bradiord		
Thomas Shorrocks	B. Hague	Barnsley	10-15	
‡R. Allen Oldham 1871 August 1877 April. Job Whiteley Halifax 1871 August 1872 Feb. ‡Thomas Hayes Failsworth 1871 Nov. 1873 August Jonathan Fishwick Bolton 1871 Nov. 1872 Feb. J. Thorpe Halifax 1872 Feb. 1873 Feb. † 1872 Feb. 1873 Feb. 1873 Feb. † 1872 Feb. 1876 June.		. (
Job Whiteley Halifax 1871 August				
Thomas Hayes		(
Jonathan Fishwick Bolton 1871 Nov. 1872 Feb. J. Thorpe Halifax 1872 Feb. 1873 Feb. tW. Johnson Belton 1 872 Feb. 1876 June.	Job Whiteley	Halifax		
tW Johnson Bolton 1872 Feb 1876 June.	Jonathan Fishwick	Bolton	1871 Nov	1872 Feb.
+ 11. Johnson 1885 March.	•	1		
	+ 14 . воппеоп	Polion	1877 June	
§H. Whiley	§H. Whiley	Manchester		

[&]quot; Secretary.

PAST MEMBERS OF GENERAL COMMITTEE .- Continued.

NAME.	ADDRESS.	ELECTED.	RETIRED.	
J. Butcher	Banbury			
H. Atkinson	Blaydon-on-Tyne			
J. F. Brearley	Oldham	1874 Feb	1874 Dec.	
Robert Cooper	Accrington	1874 Feb	1876 June.	
H. Jackson	Halifax		1876 June.	
J. Pickersgill	Batley Carr		1877 March.	
W Barnett	Macclesfield	1874 Dec	1882 Sept.	
W. Nuttall	Oldham	1876 June		
S. Lever	Bacup	1876 Sept		
F. R. Stephenson	Halifax			
R. Whittle		1877 Dec		
Joseph Mc.Nab				
James Hilton	Oldham			
Samuel Taylor				
William P. Hemm	Nottingham			

· PAST MEMBERS OF NEWCASTLE BRANCH COMMITTEE.

NAME.	ADDRESS.	ELECTE	RETIRED.		
George Dover	Chester-le-Street	1874 Dec.		1877	Sept.
Humphrey Atkinson	Blaydon-on Tyne	1874 Dec.		1879	May.
James Patterson	West Cramlington	1874 Dec		1877	Sept.
John Steel	Newcastle-on-Tyne	1874 Dec.		1876	Sept.
William Green	Durham	1874 Dec.			Sept.
Thomas Pinkney	Newbottle	1874 Dec.		1875	March.
John Thirlaway	Gateshead	1876 Dec.		1892	May.
William Robinson	Shotley Bridge	1877 Sept.			June.
William J. Howat	Newcastle-on-Tyne.	1877 Dec.			
J. Atkinson		1883 Dec.			May.
George Fryer					Dec.
Matthew Bates					June.
Richard Thompson		1874 Dec.			Sept.
George Scott	Newbottle				

· PAST MEMBERS OF LONDON BRANCH COMMITTEE.

NAME.	ADDRESS.	ELECTEI	RETIRED.		
J. Durrant John Green †Thomas Fowe †William Strawn Frederick Lamb F. A. Williams J. J. B. Beach	Woolwich Buckfastleigh Sheerness Banbury Reading	1874 Dec. 1874 Dec. 1875 Dec. 1876 Dec. 1882 June		1876 1878 1882 1888 1886	Dec. March. March. Dec. Sept.

Newcastle and London Branch Committees constituted December, 1874.
 † Held Office as Secretary.

CO-OPERATIVE WHOLESALE SOCIETY LIMITED.

MEMBERS OF GENERAL AND NEWCASTLE

AND LONDON BRANCH COMMITTEES WHO HAVE DIED

DURING TIME OF OFFICE.

NAME.	ADDRESS.	DATE OF DEATH.
	GENERAL.	
Edward Hooson	Manchester	December 11th, 1869.
Robert Allen	Oldham	April 2nd, 1877.
Richard Whittle	Crewe	March 6th, 1886.
Samuel Lever	Bacup	May 18th, 1888.
William P. Hemm	Nottingham	August 21st, 1889.
James Hilton	Oldham	January 18th, 1890.
Samuel Taylor	Bolton	December 15th, 1891.
	NEWCASTLE.	
J. Atkinson	Wallsend	May 25th, 1890.
William Green	Durham	September 9th, 1891.
John Thirlaway	Gateshead	May 1st, 1892.
	LONDON.	
J. J. B. Beach	Colchester	December 21st, 1888.

PROGRESS FROM COMMENCEMENT, IN

		Ken	- B 8			CAPI	TAL.			
	YEAR ENDING	£5 Shares taken np	No. of Members belonging to our Shareholders	Shares.	Loans and Deposits.	Trade and Bank Re- serve Fund.	Insurance Fund.	Reserved Expenses.	Total.	Net Salus.
"	t. 1864 (30 weeks)	5,885 6,949	18,837 24,005 81,080 59,849 74,737 79,245 89,880 114,588 134,276	£ 2,455 7,182 10,968 11,276 14,888 16,556 19,015 24,410 31,352	£ Included in Shares. 14,355 16,059 22,822 22,323 25,768 112,589	£ 82 682 1.115 1,280 2,826 1,910 2,916	£	£	£ 2,455 7,182 11,050 26,313 82,062 40,658 44,164 52,088 146,857	£ 51,857 120,754 175,489 331,744 412,240 507,717 677,784 758,764 1,158,182
,,	1874 1875	13,899 17,326	168,985 198,608	48,126 60,930	147,949 193,594	1,618 5,378	2,856 3,385		200,044 263,282	1,636,950 1,964,829
"	1876	22,254 24,717	249,516 276,522	78,249 94,590	286,614 299,287	8,910 12,631	5,834 10,843	634	879,607 417,985	2,247,895 2,697,866
,,	1878 1879	24,979 28,206	274,649 305,161	103,091 117,657	287,536 291,989	14,554 16,245	12,556 15,127	788 1,146	418,525 442,114	2,827,052 2,705,625
De	c. 1879 (50 weeks)	30,688	331,625	130,615	321,670	25,240	15,710	1,095	494,330	2,645,831
,,	1880	83.663	361,523	146,061	361,805	38,422	17,905	1,661	565,854	8,339,681
,,	1881	84,851	367,973	156,052	386,824	16,037	18,644	2,489	580,046	8,574,095
"	1882 1883	38,643 41,783	404,006 433;151	171,940 186,692	416,832 455,879	20,757 20,447	19,729 21,949	2,945 6,214	682,203 691,181	4,038,238 4,546,889
,,	1884 (53 weeks)	45,099	459,734	207,080	494,840	25,126	24,824	9,988	761,858	4,675,371
,,	1885	51,099	507,772	234,112	524,781	81,094	40,084	11,104	841,175	4,793,151
*1	1886	58,612	558,104	270,679	567,527	37,755	57,015	11,408	944,879	5,223,135
11	1887	64,475	604,800	300,953	590,091	39,095	78.237	18,666	1,017,042	5,718,279
,,	1888	67,704	634,196	318 583	648,134	51,189	84,201	13,928	1,116,035	6,200,074
,,	1889 (53 weeks)	72,399	679,336	342,218	722,321	58,358	119,541	9,197	1,251,635	7,028,944
,,	1890	92,572	721,316	434,017	824,974	48,549	155,231	11,695	1,474,466	7,429,078
17	1891	100,022 112,339	751,269 824,149	473,956 523,512	900,752 925,471	53,165 56,301	198,115 218,584		1,636,397 1,741,645	8,766,480 9,800,904
										95,542,748

TRADE

RESERVE FUND ACCOUNT FROM

1144	•
dditions to-	£
From Disposal of Profit Account, as above	106.142
Bonus to Employés: Balances between Amounts Provided and actually Paid	811
Dividend on Bad Debts, previously written off	785
Unclaimed Shares and Cash	20
Unclaimed Shares and Čash Profit on Sale of Strawberry Estate, Newcastle.	1.953
Land. Liverpool	713
" Laud and Buildings, Rosedale Interest on Manchester Ship Canal Shares Dividend on Sales to Employés	11
Interest on Manchester Ship Canal Shares	1.515
Dividend on Sales to Employés	247

DR.

MARCH.	1864.	TO	DECEMBER,	1892.

Compar with co	rre-		RIBU	TIVE SES.	it	iżi i	ADDI TO T	TIONS	
previous Increase.		Amnt.	Per £.	Per £100.	Net Profit.	Average Dividend paid per £.	Reserve Fund.	Insurance Fund.	Dates Departments and Branches were commenced.
£ 54,785 112,688 124,063 94,977 159,379 86,559 894,368	451 518 43 23 803 125 514	£ 347 906 1,615 3,135 3,338 4,644 5,583 6,853 12,811	13344 224 244 244 244 244 244 244 244 244	s. d. 13 4½ 15 0 18 4¾ 18 10¾ 16 2¼ 18 3556 18 0¾ 16 568 18 0¾ 22 23	£ 267 1,858 2,310 4,411 4,862 4,248 7,626 7,867 11,116	d. 1½ 3½ 3 2¾ 1¾ 2¼ 2¼ 2¼	£ 234 450 416 542 1,620 1,036 1,243	£	Tipperary. Kilmallock. Limerick. Newcastle. Manchester Boot and Shoe, Crumpsal
483,818 827,879	417 20	21,147 28,436	3 32 32 32	25 10 28 11 1	14,233 20,684	2 2	922 4,461		Armagh, M'chester Drapery, Leicester Hartford, Waterford, Clonmel. London, Tralee, Durham.
282,566 401,095 188,897	14§ 17₫	81,555 42,436 43,169	33 33 35	28 0\(\bar{8}\) 31 5\(\frac{1}{2}\) 30 6\(\bar{8}\)	26,750 36,979 29,189	2	4,826 4,925 579		Liverpool. New York, Goole, Furnishing. S.S. "Plover" purchased. Cork.
121,427* 22,774	71 49*	43,093 41,309	33 33	31 10 ¹ / ₄ 31 2 ³ / ₄	34,959 42,764	$2\frac{1}{8}$ $2\frac{3}{4}$	5,970 8,060		Launch of Steamship "Pioneer. Rouen, Goole forwarding depôt.
611,282 284,414 464,148	228 7 127	47,153 51,306 57,340	35 35	28 23 28 8½ 28 43	42,090 46,850 49,658	25 25	10,651 7,672 3,416		Heckmondwike. Copenhagen. Purchase of S.S. "Cambrian."
508,651 41,042	121	66,057 70,343	35 35 31	28 43 29 08 30 1	49,058 47,885 54,491	25 25 23	3,176 6,432		Tea and Coffee Department, London. Purchase of S.S. "Marianne Briggs." { Hamburg. Bristol Depôt. Launch o S.S. "Progress."
203,946 430,028	48 87	74,305 81,653	3§ 3§	31 0 31 33	77,630 83,328	33 31	4,434 7,077	13,259 15,469	Longton Depôt. Launch of S.S.
490,056 486,839	98 81	93,979 105,027	37 8	32 10 ³ / ₄ 83 10 ³ / ₄	65,141 82,490	$\frac{2\frac{1}{2}}{2\frac{7}{3}}$	9,408 8,684	2,778 6,614	"Federation." Batley, Heckmondwike Currying. London Cocoa Department. Launcho
709,638 582,750	11å	117,849 126,879	4	83 68 84 17	101,984 126,979	3½ 3½	2,249	16,658 20,982	S.S. "Equity." Batley Ready Mades [Launch of S.S. "Liberty." Leeds
1,837,857 584,474	18 6	143,151 165,737	9 7 41	32 7 7 35 7 8	135,008 98,532	$\frac{3\frac{1}{2}}{2\frac{1}{2}}$	1,145 6,514	14,702 1,000	Ready-Mades Department. Dunston, Aarhus, Leicester New Works Broughton Cabinet Works.
.,		1,491,156	3 <u>5</u>	31 25	1.262.189	24	106,142	91,462	

^{*} Decrease.

DEPARTMENT.

COMMENCEMENT	$_{ m OF}$	THE	SOCIETY.

CR.

Deductions from—	£
Celebration Dinner: Opening Warehouse, Balloon Street	5
Land and Buildings Account Depreciation, Special	1,14
Fixtures	85
Fixtures ", ", "	1
Insurance Fund	6,000
Investments Written off: Bank Department	18,25
" Trade Department	10,660
Manchester Ship Canal Shares	20,000
Donations, Subscriptions, &c.	13,468
21st Anniversary Commemoration Expenses, Manchester	2,017
	72,476
BALANCE—Reserve Fund:—December 24, 1892, as per Capital Account	
,, as per proposed Disposal of Profit Account. 4,643	
	00.15

- 39,171 £111,647

STATEMENT OF LAND, BUILDINGS, STEAMSHIPS, AND

	Andrew Control of the			1	AND.			
		Area in Square Yards.	Yearly Chief.	Total Pay- ments	Written Off.	Nomin'l Original Value.	Depre-	Nomin'l Value June, 1893.
MANCHESTER:— i, Balloon Street, and 85, 87, 89, and 41, Garden Street	Grocery Warehouses and Meeting-room	19601	£ s. d. 22 4 10	£ 12872	£	£ 12872	£ 7812	£ 5060
21 to 31, and 42 to 50, Back Balloon St., &20, Holgate St. Balloon Street and Holgate	Property on Rental Central Offices, Bank, Boot and	465	15 17 6	1450		1450	36	1414
Street	Shoe, and Furnishing Ware- houses, and White Lion Hotel Drapery, Woollens, and Ready-	29367	8 13 6	35999		85999	8658	27341
Cable St., and Cross St	mades Departments Warebonses on Rental New Engine-house, &c	14931 635 750	5 0 0 Freehold.	17984 11250 6000	:	17934 11250 6000	5962 1515 804	11972 9785 5196
14, 16, and 18, Balloon St., and 14, 16 and 18, Holgate St	Property on Rental	416	Freehold.	4700		4700	118	4582
NEWCASTLE-ON-TYNE:- Thornton Street, Waterloo'	Total, Manchester Offices, Grocery, and Drapery	8656	51 15 10	90205		90205	24905	65800
St., & West Blandford St. LONDON:-	W'house, Boot & Shoe & Fur- nishing W'house, Dining-rm. Offices, Grocery, Drapery, Boot & Shoe, Furnishing, & Tea, Conce		Freehold.	33262	44	88218	5987	27231
BRISTOL	& Cocoa Warehouse, Property on Rental, Stables, &c Warehouse and Sale Rooms	40723	19	22694	1083	21611	4161	17450
CRUMPSALLLEICESTER	Biscuits and Sweets, and Dry and Soft Soap Works Boot and Shoe Works	10535 31000	45 0 0 Freehold.			9126	1698	7428 74
ENDERBY HECKMONDWIEE DURHAM	Boot & Shoe & Currying Works Soap Works	10948	"	1442 1095		1442 1095	279 500	1163 595
BATLEY	Woollen Mill & Ready-mades Corn Mill Office Fittings	7036	Freehold.	3726	::	3726	559	3167
CHESHIRE	Horse and Trap Sale Room				::	::	::	••
Limerick (839 years' lease)	Ready-mades Butter Purchasing Depôt		10 0 0	.:		::	::	••
Waterford Kilmallock Tipperary (99 years' lease)	House & Butter Store on Rental		4 0 0		::`	::	::	••
Cork	Butter Purchasing Depôt Butter and Eggs ,,	693	5 0 0 36 7 0	::	::		::	••
Armagh	Office Fittings"		50 7 ('			::	••
AABUUS	Crockery Depôt and House		Freehold	. 470	0 ::	470	47	423
ROUEN (France)	Shipping Depôt, Shed, Office Fittings, &c	e	••••					
CALAIS	,, Offices, Crane & Line		Freehold	961	9	9619	2285	7334
Gorton	Dwelling-honses and Shops . Cabinet Works.	. 9000 . 8717	. " 118"is	392 441	3	3925 4418		3602 4165
Newhall	Dwelling-houses and Shops . Dwelling-houses and Shops . Dwelling-houses and Shops	1150	Freehold 9 11	. 30	0 ::	300	78	227
Garston and Rouen, Goole	S.S. "Pioneer" S.S. "Unity" S.S. "Progress"					::	::	::
and Calais, and Goole and Hamburg Lines	S.S. "Federation" S.S. "Equity" S.S. "Liberty"				::	::	::	••
Dunston	S.S. "Dinah"	.			::		::	
	Totals	166443	1 280 9	6 18080	2 1568	179234	41075	138159

FIXTURES, QUARTER ENDING JUNE 24th, 1893.

Bu	ILDING	S AND S	STEAMS	HIPS.		F	IXTURE	es.		1		TOTAL	.s.	
Total Pay- ments.	Less Written Off.	Nomin'l Origin'l Value.	Depre- ciation.	Nomin'l Value, June, 1893.	Pay- ments.	Less Written Off.	Nomin'l Origin'l Value.	Depre- ciation.	Nomn'i Value, June, 1893.	Total Pay- ments.	Less Written Off.	Nomin'l Origin'l Value.	Depre- ciation.	Nomin'i Value, June, 1893.
£ 32475	£	£ 32475	£ 23766	£ 8709	£ 15515	£ 210	£ 15305	£ 14096	£ 1209	£ 60862	£ 210	£ 60652	£ 45674	£ 14978
500		500	26	474		••				1950		1950	62	1888
42392	416	41976	9938	320 3 8	14017	239	13778	3363	10415	92408	655	91758	21959	69794
36454 12900 10838	4606 822	31848 12900 10016	18434 3433 442	13414 9467 9574	10185 5128	18 	10167 5128	7357 232	2810 4896	64578 24150 21966	4624 822	59949 24150 21144	31753 4948 1478	28196 19202 19666
1550		1550	80	1470						6250		6250	198	6052
137109	5844	131265	56119	75146	44845	467	44378	25048	19330	272159	6311	265848	106072	159776
56106	478	55628	24746	30882	19064	100	18964	11093	7871	108432	622	107810	41826	65984
86405	::	86405	33641	52764	29641 728	::	29641 728	15966 373	13675 355	138740 728	1083	137657 728	53768 373	83889 355
19792 46574 1008 10185 8925 1434 65938 852 840 	208 9 835 8560	19792 46366 1049 9800 9800 3925 1434 55876 852 840 	9418 12530 237 2635 3390 375 9527 352 621 28	10374 38836 812 6665 585 1059 45849 	15084 34223 831 6017 3040 5429 49379 491 252 50 393 1883 232 23 50 43 444 6 6 63 21 15	324 1762 136 147 86 	14710 32461 831 6017 3040 5429 49243 294 166 50 207 1883 232 23 20 43 44 46 63 21 21 50	9071 7186 272 2324 9040 1935 9768 206 166 4 97 463 232 3 8 8 23 50 11 881 881 3	5689 25275 559 8693 3494 89475 78 46 110 1420 12 42 63 10 188	34826 90364 1973 17594 8060 6863 117041 431 252 50 393 1883 20 863 50 1006 663 21 15	324 2411 9 835 8696 147 86 186	84502 87953 1964 16759 8060 6863 108345 284 166 50 207 1883 50 863 50 1066 663 1066 663	18489 21414 519 5238 6980 2810 19854 4 97 463 584 8 8 828 828 622 409 6 6 6 6 6 6 6 6 8	16018 66539 1445 11521 1180 4553 88491 78 46 110 1420 12 35 444 160
1882	96	1786	333	1453	441		441 241	92 111	349	2793	96	2697	472	2225
447		447	37	410	$\begin{array}{c} 241 \\ 1056 \\ 127 \end{array}$	39	1017 127	755 114	130 262 13	$\begin{array}{c} 241 \\ 1503 \\ 127 \end{array}$	39	241 1464 127	111 792 114	130 672 18
12561 7128 7239 494 8048 11603 8634 8994 15843 17799 22126 1000	468	12561 6660 7239 494 3048 11608 8634 8994 15843 17799 22126 1000	6904 446 4849 291 1526 9100 4878 6128 6222 5805 5749 181	5657 6214 2390 208 1522 2508 8756 2866 9121 11994 16377 869	3950 .: .: .: .:		3950	287	37is	9619 16486 15491 7239 794 8048 11608 8634 8994 15843 17799 22126 1000	468	9619 16486 15023 7289 794 8048 11608 8634 8994 15543 17799 22126 1000	2285 7227 931 4849 964 1526 9100 4878 6128 6222 5805 5749 181	7334 9259 1492 2390 430 1522 2503 8756 2866 9121 11994 16877 869
*461618 †85499	*16498	*445115 +85499	*168810 †38013	*276305 †47486	217975	3247	214728	89092	125636	$860390 \\ +85499$	21318	839077 †85499	298977 +88013	540100 +47486

^{*} Buildings.

MANCHESTER GROCERY AND PROVISION TRADE.

From the time of commencing to keep a separate Account.

		EXPE	NSES.	Pro	FIT.	
Date.	Sales.	Amount	Rate.	Amount	Rate.	Stocks
	£	£	s. d.	£	s. d.	£
July, 1874	858216	3682	0 2	1831	0 14	6408
Oct. "	471586	4342	0 2		0 82	7184
anuary, 1875	285353	8692	0 8	8250	0 23 0 1	7186
pril "	806720	3627	0 2	2032	0 1	5280
uly "	859076	8458	0 2 0 2	8996	0 28	5157
October "	427793	3884	$0 \ 2\frac{1}{8}$	6379	0 34	5072
anuary, 1876	882947	8732	0 2 5 0 2 5	6635	0 42	5648
pril "	855644	4091	0 24		0 37	5504
uly "	398787	4603	0 24	3975	0 21	5013
ctober ,, (14 weeks)	543067	4685	0 2	10514	0 48	6469
anuary, 1877	410139	4818	0 23 0 24	8484	0 47	6820
pril ,	350666	4257	0 24	2501	0 1	4742
uly ,	475064	4261	0 2	6848	0 87	6489
october "	518321	4157	0 2	10377	0 47	6859
anuary, 1878	421966	4191	0 25	6019	0 81	5879
pril ,	892083	4380	0 25	6127	0 38	6176
uly "	401932	4401	0 2	5216	0 3	5712
ctober "	491527	4392	0 2	8669	0 41	5979
anuary, 1879	398071	4200	0 21	6490	0 83	5531
larch ,, (10 weeks)	263534	3254	0 24	2790	0 2	7134
une " (14 weeks)	404338	4722	0 2	3659	0 21	7908
eptember, 1879	452049	4376	0 2	9306	0 47	6187
December, "	470086	4409	0 2	18071	0 68	7144
Iarch, 1880	418000	4644	0 24	5706	0 81	9501
une ,,	484068	4797	0 23	4327	0 2	8288
eptember,	564188	4718	0 2	12086	0 5	10246
December ,,	582183	4752	$0 2\frac{1}{8}$	8858	0 4	7009
larch, 1881	404706	4692	$\begin{array}{ccc} 0 & 2\frac{3}{4} \\ 0 & 2\frac{1}{4} \end{array}$	5927	0 81	8460
une ,	497493	4865	0 21	7256	0 31	8164
sept. "	598864	5019	0 2	11227	0 43	8409
Dec. "	546147	5307	$0 2\frac{1}{8}$	8050	0 31	8727
larch, 1882	468027	5884	0 8	6222	0 81	10794
une ,,	559537	5839	0 21	6187	0 2	9231
ept. "	617265 658521	5704 6239	$\begin{array}{ccc} 0 & 2\frac{1}{4} \\ 0 & 2\frac{1}{4} \end{array}$	9339 8896	0 31	9269
,,			-			. 14119
larch, 1883	558465	7029	0 8	7296	0 81	12541
une "	606478 692614	7097 6927	0 23 0 23	4360 7514	0 1	13027
ept. "	686852	7284	0 25	8285	0 24 0 24	9709 10941
	502858	7007	-	5.400		
farch, 1884	641730	7616	$\begin{array}{ccc} 0 & 3\frac{1}{4} \\ 0 & 2\frac{5}{4} \end{array}$	5493 5262	0 2½ 0 1½	8933
	675845	6972	0 2	7602	0 28	9477
Sept. ,,	636860	6927	0 23	6536	0 2	10483
,,	000000	0021	0 27	0000	0 45	10/02

MANCHESTER GROCERY AND PROVISION TRADE.—Con.

From the time of commencing to keep a separate Account.

		Date.	Sales.	Expe	NSE	s.	Pro	FIT.		Stocks.
		24001	Sales.	Amount	Ra	te.	Amount	Ra	te.	OLOCKS
			£	£	s.	d.	£	s.	d.	£
March,	1885		514235	7124	0	31 23 23 23 25 25	7455	0	35	78919
June	,,		578862	6746	0	$2\frac{3}{4}$	13340	0	51	90848
Sept.	"		644647	6586	0	28	10555	0	37	9742
Dec.		•••••	638201	7028	0	$2\frac{5}{8}$	10407	0	37	92790
March,	1886	••••	. 568243	7131	0	3	8553	0	31	95156
June	**		. 600840	7291	0	$2\frac{7}{4}$	7454	0	25 37	7856
Sept.	,		671578	7469	0	25	10913	0	37	10493
Dec.	"	•••••	. 730774	7986	0	$\frac{25}{2}$	14461	0	48	113620
March.	1887		604978	7724	0	3	10305	0	4	103609
June	**		648521	7976	Ó	27	8133	Ó	3	96828
sept.	17		761498	8248	ő	$2\frac{7}{2}$	11926	Ō	33	12292
Dec.	"		812627	9031	0	$2\frac{5}{8}$	15152	0	48	12956
March,	1888		673598	8387	0	$2\frac{7}{8}$	10347	0	35	10199
June	21		720959	8794	Ò	24	11111	0	35	109278
Sept.	"		802383	8900	Ō	25	14345	0	41	121208
Deo.	19		895285	9833	0	25	13995	0	35 41 33	13984
March,	1889		769225	9300	0	23	14235	0	48	150890
June	,.		839900	10001	0	2^{3}_{4}	19357	0	54	143149
Sept.	,,	(14 weeks)	960271	10308	0	$\frac{2^{\frac{7}{2}}}{2^{\frac{1}{2}}}$	12090	0	3	116194
Dec.	"		933799	10196	0	$2\frac{1}{2}$	15770	0	4	11239
March,	1890	(12 weeks)		9399	0	3	12669	0	41	92544
June	77	(14 weeks)		10711	0	$2\frac{7}{8}$	15486	0	41	91409
Sept.	• •		890116	10310	0	$\frac{2^{3}}{2^{5}}$	16892	0	41	119560
Dec.	,,	• • • • • • • • • • • • • • • • • • • •	1014400	11128	0	2_8^5	20937	0	47	123439
March,	1891		946982	10971	0	$2\frac{3}{4}$ $2\frac{3}{4}$ $2\frac{1}{2}$	19441	0	47	101661
June	"		936125	11039	0	$2\frac{3}{4}$	16001	0	4	99479
Sept.	,,		1057205	11427	0	$2\frac{1}{3}$	19517	0	48	145406
Dec.	17	••••	1172257	13183	0	$2\frac{5}{8}$	19923	0	4	192161
March,	1892		1034457	12992	0	3	15722	0	35	184174
June	22		1029284	13727	0	31 27 25 25 25	13622	0	8	154057
Sept.	"		1108358	13560	0	$2\frac{7}{8}$	11385	0	$2\frac{3}{8}$	197236
Dec.	,,	•••••	1228901	14361	0	$2\frac{7}{5}$	19186	0	38	226266
March,	1893		1047841	14258	0	31	19539	0	43	177586
June	,,	• • • • • • • • • • • • • • • • • • • •	1076495	14203	0	$3\frac{7}{8}$	16895	0	33	179585
			49200049	552156	0	22	763642	0	35	

MANCHESTER DRAPERY TRADE.

From the time of commencing to keep a separate Account.

	0.1	Expe	SES.	Pro	FIT.	Los	ss.	Gt.
Date.	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stock
	£	£	s. d.	£	s. d.	£	s. d.	£
anuary,1874	10575	848	0 8	201	0 4			11568
anuary,1014	12712	564	0 102	436	0 83			1940
pril "				952	0 8	• • • • •	• • • •	2600
aly ,,	12991	967	1 4		T of	****	****	
october ,	24185	1223	1 0	• • • • •	••••	560	0 51	8147
anuary, 1875	21402	1218	1 13	416	0 45			3682
pril "	26273	1819	1 0 ₺	239	0 24			3790
uly "	80513	1748	1 0 7	876	0 8			4710
ctober ,,	36071	2041	1 17	246	0 18			6528
annam 1976	86629	2156	1 21			141	0 02	7240
anuary, 1876	41708	2397	1 21 13	60	0.01		- 3	7407
pril ,,			1 14		0 0,5		0 44	
uly "	82996	2509	1 6		• • • •	634	0 4	7383
ctober , (14 weeks)	88977	2370	1 25	• • • • •	••••	453	0 23	7089
anuary, 1877	33402	2115	1 81			898	$\begin{array}{ccc} 0 & 2\frac{3}{4} \\ 1 & 0\frac{3}{4} \end{array}$	6926
pril .,	316 20	2316	1 5			1678	1 03	6484
uly ,	25640	2197	1 8			1115	0 107	6658
ctober	81389	2148	1 8 1 4 7 8		••••	154	0 1	
anuary, 1878	36269	2218	1 21			1197	0 8	4851
pril	87000	2162	1 2	816	0 2			4499
	81486	2186	1 42	60	0 01			4384
uly "		2146		191	0 1		• • • •	4466
october ,	83708	2146	1 8	191	,		• • • • •	2200
anuary, 1879	82557	2024	1 25	68	0 08			4449
larch " (10 weeks)	25869	1622	1 8	193	0 13			4415
une " (14 weeks)	83171	2116	1 8	619	0 4			4596
ept. ,	30136	2022	1 4	168	0 13			4444
ec. ,,	87648	2057	1 1	694	0 41/2	••••	••••	4322
farch.1880	37484	2168	1 14	472	0 8			4178
une	84195	2035	1 24	874	0 25			4879
Sept. "	80784	2264	1 24	201	0 11			4566
ec. ,,	37008	2044	î 11	1267	0 82			4410
.,					0 4			
farch, 1881	82449	2078	1 83	564	0 4½ 0 3½		• • • •	4024
une ,	30989	2002	1 31	458	0 8		••••	4358
ept. ,,	31825	2060	1 81	822	0 2			4331
ec. ,	37701	2028	1 05	593	0 84		••••	4220
Iarch, 1882	34875	2064	1 21	820	0 53			3917
une	325: 9	2017	1 21	809	0 54		••••	4407
ept	33983	2083	1 23	535	0 8			4246
Dec. ,,	41622	2178	1 01	1340	0 83 0 75		••••	4085
Iarch. 1883	38527	2250	1 2	325	0 2			8942
	33329	2098	1 3	1165	0 88	••••	• • • •	3860
							• • • •	
ept. "	38935	2241	1 13 1 08	856	0 51	• • • •	• • • •	4309
ec. "	46206	2387	1 0	1825	0 98	••••	• • • •	4186
Iarch, 1884	38641	1999	1 03	767	0 43			3388
une " (14 weeks)	39597	2196	1 11	827	0 5			3706
Sept	41661	2090	1 0	1827	0 75			4085
Dec. ,,	45871	2080	0 107	2362	1 01			3802
		00			- 54			0002

MANCHESTER DRAPERY TRADE.—Con.

From the time of commencing to keep a separate Account.

QUARTERLY ACCOUNTS.

Date.	Sales.	EXPE	NSES.	Pro	FIT.	Lo	ss.	Stocks
		Amount	Rate.	Amount	Rate.	Amount	Rate.	
March, 1885	£ 44878 36821 42652 48882	£ 2249 2133 2233 2452	s. d. 1 0 1 1 ⁷ / ₈ 1 0 ¹ / ₂ 1 0	£ 1608 1208 1469 1102	s d. 0 8½ 0 7¾ 0 8¼ 0 5¾	£	s. d.	£ 87187 40780 46518 44948
March, 1886	47873 44898 49080 53288	2352 2272 2492 2612	$\begin{array}{ccc} 0 & 11\frac{3}{4} \\ 1 & 0\frac{1}{8} \\ 1 & 0\frac{1}{8} \\ 0 & 11\frac{3}{4} \end{array}$	1130 1477 1009 1717	0 55 0 77 0 47 0 78			43609 46093 50143 54130
March, 1887	50308 48306 50232 61859	2519 2666 2716 2897	$\begin{array}{ccc} 1 & 0 \\ 1 & 1\frac{1}{8} \\ 1 & 0\frac{7}{8} \\ 0 & 11\frac{1}{8} \end{array}$	1379 691 714 840	$\begin{array}{ccc} 0 & 6\frac{1}{2} \\ 0 & 3\frac{3}{8} \\ 0 & 3\frac{1}{4} \\ \end{array}$::::		55071 61287 64263 59695
March, 1888	57800 55898 55495 63084	2748 2858 2791 2953	$\begin{array}{ccc} 0 & 113 \\ 1 & 04 \\ 1 & 0 \\ 0 & 118 \end{array}$	1070 1166 344 2211	$\begin{array}{ccc} 0 & 4\frac{3}{8} \\ 0 & 5 \\ 0 & 1\frac{3}{8} \\ 0 & 8\frac{3}{8} \end{array}$			59101 57459 62591 62110
March, 1889	59112 62194 66746 68397	2922 3127 3593 3526	$\begin{array}{ccc} 0 & 11\frac{3}{4} \\ 1 & 0 \\ 1 & 0\frac{7}{8} \\ 1 & 0\frac{1}{4} \end{array}$	1418 380 1319 1422	$\begin{array}{ccc} 0 & 5\frac{3}{4} \\ 0 & 1\frac{3}{8} \\ 0 & 4\frac{5}{8} \\ 0 & 4\frac{7}{8} \end{array}$			69413 71854 84102 87849
March, 1890 (12 weeks) June ,, (14 weeks) Sept. ,, Dec. ,,	70839 79680 73278 87568	3632 4189 3849 3942	$\begin{array}{cccc} 1 & 0\frac{1}{4} \\ 1 & 0\frac{1}{2} \\ 1 & 0\frac{1}{3} \\ 0 & 10\frac{3}{4} \end{array}$	1150 2245 190 3406	$\begin{array}{ccc} 0 & 3\frac{7}{8} \\ 0 & 6\frac{3}{4} \\ 0 & 0\frac{1}{2} \\ 0 & 9\frac{1}{4} \end{array}$			89190 90891 89311 84739
March, 1891	84298 77664 83583 93568	3901 4013 4159 4233	$\begin{array}{ccc} 0 & 11 \\ 1 & 03 \\ 0 & 117 \\ 0 & 103 \\ \end{array}$	868 3098 1331 2618	$\begin{array}{ccc} 0 & 28 \\ 0 & 91 \\ 0 & 33 \\ 0 & 66 \end{array}$			81873 83681 87861 82524
March, 1892	92107 86610 85643 106135	4508 4717 4725 4917	$\begin{array}{ccc} 0 & 11\frac{5}{8} \\ 1 & 1 \\ 1 & 1\frac{1}{8} \\ 0 & 11 \end{array}$	2326 2142 2118 3550	0 6 0 57 0 58 0 8	::::		82022 87115 97505 90744
March, 1898 June ,,	97708 90894	4815 4882	$\begin{array}{ccc} 0 & 11\frac{3}{4} \\ 1 & 0\frac{7}{8} \end{array}$	2432 2329	0 57 0 61 0 61			92723 91116
Less Depreciation allow Profit Account	nt, October	r, 1877	1 0 ⁷ / ₈ £4757 6325	75916 11082		6325	• • • • •	1
" Loss Leaves Net Profi			0020	64894	0 41	-		

Note.—To December, 1883, the figures include Woollens and Ready-Mades Department.

MANCHESTER WOOLLENS AND READY-MADES DEPARTMENT.

From the time of commencing to keep a separate Account.

D. 1	0-1	EXPE	NSES.	PRO	FIT.	Lo	88.	Stocks
Date.	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocke
		£	в. d.	£	s. d.	£	s. d.	
March 1884	4504	307	1 41	1				4889
June " (14 weeks)	7243	341	0 113	226	0 75			4212
September	4272	801	1 47	408	1 102			4720
December	4349	272	1 3	100	1 108	226	1 02	4407
Maych 1885	5748	294	1 03	159	0 64			5081
•	6186	307	0 117	195	0 73			4151
, , ,	4476	810	1 4	61	0 8	1		5728
D	4800	838	1 47			79	0 87	5242
	5129	874	1 5	••••	• • • •	170	0 87 0 77	6961
1	7543	359	0 113	401	i 03	1		5661
	4363						••••	6641
September ,		881	1 6	77				
December	5139	858	1 48	19	0 0%			6275
March 1887	5684	857	1 8	1000		84	0 8	7060
June "	6218	854	1 15 1 68	203	0 73			6023
September "	4512	351	1 6			48	0 21	6335
December ,	5411	365	1 4			78	0 83	6112
March 1888	5565	870	1 87			178	0 78	7945
June ,,	7198	896	1 1	248	08			6654
September ,	4756	379	1 7			111	0 51	7094
December "	5533	402	1 58	16	0 05			8450
March 1889	5865	405	1 44			159	0 63	10971
Jane "	8131	418	1 0	814	0 91			11092
September " (14 weeks)	6293	525	18	1 1		111	0 41	11231
December ,,	6524	497	1 6 1 1 6 1			256	0 93	12277
March 1890 (12 weeks)	6315	497	1 67			416	1 3 3	11586
fune , (14 weeks)	8244	552	1 4	67	0 17			11504
September	5064	494	1 112	l l		599	2 43	11975
December ,	7070	552	1 6			336	0 118	11463
March 1891	7896	584	1 58			805	2 01	13614
June	8896	613	1 43	9	0 01			13880
Sept.	7126	609	1 8	1 1		746	2 1	17718
Dec	8028	659				752	1 103	19761
March 1892	9182	758	1 75 1 75			623	1 42	20913
June	12597	828	1 37	311	0 57			19944
September ,,	7488	722	1 11			4178		15501
December	11487	641	1 12	297	0 61	****		12958
March 1893	12782	721	î î	182	0 33			18362
June "	14183	741	1 03	358	0 6			10760
	261584	17677	1 41	3547		9945		
	Lei	ss Profit	• • • • • • •		• • • •	3547		
	Les	ves Net I	055			6398	0 53	

MANCHESTER BOOT AND SHOE TRADE.

From the time of commencing to keep a separate Account.

Date.	Sales.	EXPE	SES.	Pro	FIT.	Los	ss.	041
Date.	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks
	£	£	d.	£	d.	£	d.	£
anuary, 1874	5506	204	83 73 63	1				4715
	7529	231	73	852	111			4856
		288	28	214	43		••	
uly "	10794		oş			ا -:- ا	•:.	4812
October "	8877	321	88		••	95	$2\frac{1}{2}$	4897
annary, 1875	10057	289	67	277	68			5197
pril "	12240	310	6	341	65			4614
uly ,,	14275	321	51	16		1 1		5359
ctober	15234	851	51	341	5			7474
			-		_	"	•••	, ,,,
anuary, 1876	12136	344	63	77	$\frac{1\frac{1}{2}}{3\frac{1}{4}}$ $\frac{2\frac{1}{3}}{2\frac{3}{3}}$		••	7711
pril ,,	18777	418	75	187	31			8517
uly	15259	474	74	172	24	l		7894
october ,, (14 weeks)	15893	472	7 1 7 1 7 1 7 1 8	168	24	::	•••	7248
1000	10070	447		59	11			4000
anuary, 1877	12378	447	88 78		1) 33	••	••	6082
pril ,,	14018	461	78	220	34		••	6979
nly ,,	16969	516	$6\frac{5}{16}$	332	411	1 /	••	7994
October ,,	14185	498	$8\frac{7}{16}$	132	24"		••	7594
anuary, 1878	18182	500	91	102	15			7985
	18591	572	10	153	03		1	
pril ,,				417	15 23 5 5 5	1 1	••	8349
uly ,,	17918	564	7 <u>1</u> 82		Độ	1	••	9646
ctober "	15585	580	88	840	54	••	••	9658
anuary, 1879	12238	476	9½ 10%			143	23	10242
farch ,, (10 weeks)	8835	408	107	284	68			10517
une (14 weeks)	17443	579	8	415	65 53	1 1		
				119	υ¥		••	10998
eptember,	14150	583	97		2	1 :: 1	••,	10709
December ,,	14842	570	$9\frac{7}{4}$		••	16	4	10964
March, 1880	15095	585	91 81 92	479	78	l l		10801
une "	17618	609	81	147	2"	1		10688
	15069	600	ăi	125	2		••	10250
eptember "			102	4		1	••	
December "	14362	593	10	4	••	"	••	11484
farch 1881	15375	596	91	199	3			10107
une ,,	21621	660	71	335	88	::		11254
eptember "	17362	630	83	184	21	1 (11542
ecember ,,	17024	606	91 74 81 81	124	2½ 15	::	::	11377
				-00				
Iarch, 1882	16838	637	9	121	13		••	10945
une "	22134	660	7 k	384	4	1	••	12395
eptember "	18328	637	81	419	55			12269
ecember "	18801	649	71 81 81	322	4	::	::	12564
Famel 1000	0000*	704		188	0.1			1 50 00
farch, 1883	20091	704	88 71 81 81	537	2 1/8 5		••	15967
	25186	772	74			1	••	13817
eptember "	20457	701	Og.	355	$\frac{4\frac{1}{8}}{2\frac{1}{8}}$		••	13335
ecember "	20322	705	81	186	$2\frac{1}{8}$		••	12988
farch, 1884	20277	687	81	292	88			13955
une ,, (14 weeks)	31093	881	63	567	43			14274
September ,,	26084	802	73	372	23	1 1	••	14675
December ,,	22240	780	81 67 79 83	855	89136 408 391 391		••	
/eceni0er	22240	780	전불	999	37			16576

MANCHESTER BOOT AND SHOE TRADE .- Continued.

From the time of commencing to keep a separate Account.

Date.	Sales.	EXPE	SEE.	Pro	FIT.	Los	8.	Stocks
Date.	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks
	£	£	d.	£	d.	£	d.	£
March, 1885	26485	930	81	80	02			17766
	81199	919	7	535	4			16088
		840	61	504	47			16240
September "	24394		81 81		47 21		••	
December	24677	907	84	276	21		••	16074
March, 1886	27103	890	77 68	892	88	'		17581
June ,,	38429	1088	6	606	84	1 1		17772
September "	27000	968	8 1	876	73	1 1]	17066
December ,	28900	881	$\frac{8\frac{7}{4}}{7\frac{1}{4}}$	898	85 77 78			16578
March, 1887	28969	952	71	704	53	l l		21418
une ,	38380	1148	71	1174	71	::		21044
			9	608	44		••	
September ,,	28387	978	71 71 81 71		574 584 586 48		••	19568
December ,,	80363	992	12	597	48		•••	19727
March, 1888	28807	1224	101	123	1			24986
une	44148	1281	67	1181	63			23255
September ,,	82611	1181	8	884	6	[24480
December ,,	33622	1178	88	752	51]	22680
farch. 1889	86117	1888	87	417	23	l		25798
une ,,	49279	1415	87 64	1392	a3	1 1		22889
September , (14 weeks)	37634	1380	03	929	234 634 54 64		••	26885
september ,, (14 weeks)			83 88		08		••	
December ,,	39972	1358	8	1034	Dg			24067
farch, 1890 (12 weeks)	40929	1391	81 61	811	43			32937
une " (14 weeks)	60371	1662	64	1802	75			29680
September	41042	1447	83	1013	57			29082
December "	46188	1483	89	1331	43 75 54 68			82095
farch. 1891	56667	1780	71	668	93		}	41852
une	59897	1842	71 71	1628	$\frac{2\frac{3}{4}}{6\frac{1}{2}}$	1		37891
September ,,	50425	1757	01	1292	6	•••	•••	39962
December ,,	51191	1815	8 1 81		63		•••	
Jecember ,,	91191	1019	02	1385	og			36875
farch, 1892	56859	2238	98	680	23 41			44708
une ,,	73503	2523	8 <u>š</u>	1286	41			44749
September .,	49268	2237	107	541	28			52322
December ,,	53467	2324	103	537	2			52169
farch, 1893	58886	2502	101	868	81			60518
June "	66922	2529	9	1078	8 1 83	::	::	59015
	2144319	78589	81	89221		254		
Less Los	8	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	254	••			
Leaves N	et Profit	. . .		88967	41	T		

MANCHESTER FURNISHING TRADE.

From the time of commencing to keep a separate Account.

	~ .	EXPEN	SES.	Pro	FIT.	Lo	ss.	
Date.	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks
	£	£	s. d.	£	s. d.	£	s. d.	£
October, 1876 (14 weeks)	3036	188	1 23	·		57	0 4	284
anuary, 1877	2908	217	1 6	5	0 03	1 - 1		257
	3813	250	1 83	87	0 8		••	242
	3426	216	1 8		0 0	24	0 18	227
N. 4 - 1				1 32	۰		0 18	
October "	4166	242	1 115	45	0 $2\frac{9}{18}$		••	234
anuary, 1878	4059	276	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7	0 03		••	228
April "	4397	310	1 43	121	0 6	1	••	224
uly "	4141	291	1 43	14	0 07	1		227
October "	4320	807	1 5	29	0 15		••	227
(annous 1970	4516	277	1 28			24	0 11	242
anuary, 1879				26	0 iş	1	0 11	
farch ,, (10 weeks)	3624	218	1 2			1 !	••	283
une ,, (14 weeks)	5249	825	1 35	30	U 18			807
September ,	4291	280	1 34			33	0 17	316
ecember "	5197	285	1 1	37	0 13		••	852
Iarch, 1880	6530	327	1 0	29	0 1	l		401
une ,,	5144	847	1 41	4	0 01			431
eptember ,,	5922	813	1 41 1 03	102		1		396
ecember ,	6647	880	0 113	269	0 41 0 98	::		430
			9		• • • • • • • • • • • • • • • • • • •			
Iarch, 1881	6209	838	1 03			14	0 04	414
une "	6085	318	1 0 2	91	$0 \ 8\frac{1}{2}$			449
Sept. "	5736	320	1 1		••	29	0 11	409
December ,,	6814	322	$\begin{array}{ccc} 1 & 1\frac{5}{4} \\ 0 & 11\frac{7}{4} \end{array}$	123	0 41		"	397
Iarch, 1882	6783	851	1 08	115	0 4			412
une ,	6786	844	1 01	82	0 24	1 1		382
,,	7293	419	1 1	61	0 2 5		••	372
	8159	401	0 114			89	0 11	363
,,	0100	101	•	••		00	0 18	1
Iarch, 1888	7812	439	1 18 1 13	95	0 25 0 25 0 07 0 07	1		384
une ,,	7936	455	1 13	99	0 24		• •	430
September,	7954	472	$1 \ 2\frac{7}{4}$	82	0 07	1]		433
December "	11102	512	0 11	197	0 41		••	427
farch, 1884	9850	540	1 11	204	0 47			510
une " (14 weeks)	11280	595	1 05		8	26	0 04	517
September,	11002	566	1 03	205	0 43			507
December ,,	12179	552	0 107	290	0 5	::		548
		1 1				"		
Iarch, 1885	13126	626	0 113	329	0 6		• •	597
une "	12228	611	0 117	123	0 23			614
eptember,,	12589	582	$0.11\frac{2}{8}$	166	0 3		••	577
December "	13345	596	0 10§	275	0 45	••	••	581
Iarch 1886	18929	624	0 102	207	0 81			577
une "	15251	684	0 103	874	Ú 5Ž	::		629
September ,,	15277	650	0 10	182	0 57 0 23 0 45	::		565
December ,,	17883	699	0 93	366	0 47		••	604
rocomper 1,	T 1000	000	o og	1 000	v 18			004

MANCHESTER FURNISHING TRADE .- Con.

From the time of commencing to keep a separate Account.

		EXPE	NSES.	PRO	FI T.	Los	88.	Cton
Date.	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks.
	£	£	s. d.	£	s. d.	£	s. d.	£
March, 1887	17284	676	0 93	277	0 37		• •	7124
June	18037	758	0 10°	861	0 43			7885
September "	16546	956	1 17	79	0 1			8459
December "	21065	1107	1 01	229	$0 \ 2\frac{1}{2}$		••	9497
March, 1888	20315	1196	1 2	168	0 17	l		9372
June ,	21172	1189	1 18			90	0 1	8851
September ,	20205	1158	1 13	138	0 14			. 7944
December ,,	23792	1212	1 0	830	0 3			8548
March, 1889	21172	1230	1 17	33	0 01			9177
June "	23523	1233	1 0%	494	0 5			8985
September ,, (14 weeks)	23318	1229	1 02	220	0 21			7990
December ,,	28150	1250	0 108	689	0 21 0 5%		••	9770
March. 1890 (12 weeks)	24872	1194	0 114	463	0 43			11021
June (14 weeks)	33177	1430	0 10	655	0 42	1		11478
September	28968	1354	0 111	369	0 8		••	10544
December "	35644	1411	$0^{-9\frac{1}{2}}$	864	0 53		••	12930
March, 1891	32981	1500	0 107	360	0 24			13513
June	32471	1482	0 107	89	0 22	1		14285
September	33398	1466	0 10%	396	0 23			12812
December ,,	38256	1545	0 95	893	$\begin{array}{ccc} 0 & 2\frac{1}{2} \\ 0 & 2\frac{7}{2} \\ 0 & 2\frac{3}{2} \\ 0 & 5\frac{1}{2} \end{array}$			12567
March, 1892	33409	1747	1 04			26	0 01	13557
June ,,	37473	2036	1 1	296	0 12	1 1	"	13883
September,	31686	1866	1 21		'	41	0 01	12592
December ,,	40418	1910	0 11 }	90	0 01		••	13455
March, 1893	35083	1902	1 1	9				15263
June ,,	38061	1968	1 03	91	0 01		••	16252
	1058420	53025	1 0	12274	••	403	••	••
	Less	Loss	• • • • • • • •	403	••			
	Leav	es Net Pro	fit	11871	0 25	1		1 "

NEWCASTLE BRANCH GROCERY AND PROVISION TRADE.

From the time of commencing to keep a separate Account.

Date.	Sales.	EXPE	NSES.	Prop	IT.	Los	ss.	Stocks
Date.	Dales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks
	£	£	s. d.	£	s. d.	£	s. d.	£
pril. 1876	131789	1791	0 81	1768	0 31			26712
uly	124393	1938	0 83	1161	$0 \ 2^{\frac{1}{3}}$	••	••	32241
ctober, 1876 (14 weeks)	152237	2036		766	$\begin{array}{ccc} 0 & 2\frac{1}{5} \\ 0 & 1\frac{1}{5} \end{array}$	• • •	••	40908
ctober, 1876 (14 weeks)	192297	2036	$0 3\frac{1}{5}$	700	U 1 §]	••	40908
anuary, 1877	120825	1962	0 87	836	0 12		••	84591
pril "	132575	2053	0 3	1389	0 2		• •	30086
uly ,,	141614	1990	0 3§"	1218	$0 \ 2\frac{1}{16}$	1	• •	22718
ctober "	140902	2001	0 38	919	0 1'"		••	29594
anuary, 1878	126692	2169	0 4,1	613	0 11			28996
pril "	120800	2028	0 4 16	988	0 2"	::	••	26039
-1	112256	1898	0 4	647		1		20350
otohon	111069	1679	0 8	903	0 18 0 18		••	24383
стопег "		1019	J 9				••	
ay, 1879	113972	1797	0 83	635	0 11 0 78		••	22789
(arch , (10 weeks)	85774	1815	0 33	2648	0 7	l		25284
une . " (14 weeks)	118678	1886	0 35 0 35	1470	0 8			21031
eptember ,	119668	1697	0 8			167	0.04	29290
ecember ,	145993	1925	0 3	3283	0 5§	107	0.01	49145
					-			
arch, 1880	146614	2064	0 38	1023	0 14			40786
une ,	145848	1905	0 81 0 81	734	0 11			25906
eptember	142258	1858	0 31	1185	0 2			33883
ecember "	153944	2041	0 31	1694	0 28	::	-::	44398
Jaroh 1881	152124	2254	0 81	2699	0 41			41400
larch, 1881			0 07		0 03	••	•••	
une "	169531	2098	0 27	1759	0 28	•••	•••	48127
ept. ,,	191300	2187	$\begin{array}{ccc} 0 & 3\frac{1}{2} \\ 0 & 2\frac{7}{3} \\ 0 & 2\frac{3}{4} \end{array}$	3600	0 4½ 0 1½			54764
ec. "	190382	2382	0 8	1238	0 11			54648
larch, 1882	181358	2486	0 81	1029	0 11			49740
une u	190600	2418	0 3	2488	0 3			49724
ept.	204549	2519	0 25	3520	0 41	::	::	52044
ec. ,,	218500	2675	$\begin{array}{ccc} 0 & 2\frac{2}{5} \\ 0 & 2\frac{7}{5} \end{array}$	1704	0 43 0 15			65330
,,					_			
larch, 1883	196039	2741	0 31	1467	0 13	•••	••	66285
ane ,,	208842	2751	0 8	3226	0 37	••	••	65103
ept. ,,	230513	2582	0 28	3011	$\begin{array}{cccc} 0 & 3\frac{7}{4} \\ 0 & 2\frac{7}{4} \end{array}$			44265
ec. ,,	236203	2711	0 23	2772	0 23	••		55152
arch, 1884	222807	2806	0 8	2954	0 31			55878
ane " (14 weeks)	240710	2944	0 27	2468	0 2			41760
ept. ,,	235087	2822	0 24	4468				48207
ec. ,,	232199	2823	0 27	2561	$ \begin{array}{c c} 0 & 4\frac{7}{2} \\ 0 & 2\frac{5}{2} \end{array} $	-::		65158
,,		1			- 1			
arch, 1885	216816	2996	0 81	2913	0 84	••		65568
ane ,,	232467	3145	$\begin{array}{ccc} 0 & 3\frac{1}{8} \\ 0 & 2\frac{1}{8} \end{array}$	4958	0 51	••	••	79425
ept. ,,	240409	2888	$0 \ 2\frac{7}{6}$	3462	0 3	•••	••	70555
ec. ,,	246850	8046	0 2 8	3094	0 8			53546
arch, 1886	220254	2827	0 8	3066	0 81			46224
	223551	2938	0 81	4458	0 44			55673
	244049	3127	0 8	5281	0 5			68142
• ,,					0 53			
ec. ,,	262024	3429	0 81	5994	0 53	••		71265

NEWCASTLE BRANCH GROCERY AND PROVISION TRADE.—Con.

From the time of commencing to keep a separate Account.

Date.	Sales.	EXPE	SES		PROI	TT.		Los	38.		Stocks
Date.	Sales.	Amount	Ra	te.	Amount	Ra	te.	Amount	Rat	e.	Stocks
	£	£		d.	£	s.	d.	£	s.	đ.	£
Iarch, 1887	229481	8698	Ö	84	4094	0	41	-			72331
une "	238169	3608	Õ	35	2198	ŏ	21				62551
,,	248900	3250	ŏ	31	2186	ŏ	28	1 1	• •		68501
ept. ,,	249598	8664	ŏ	8	2598	ŏ	23	::	• •		59682
	2022000						-	"	•		
larch, 1888	232299	3387	0	31	8058	0	81				58962
nne "	242155	3545	0	3	2127	0	2				51199
ept. ,,	264313	3450		31	6454	0	53				71800
ec. ,,	288761	3743	0	8	7509	0	$6\frac{1}{8}$				65838
larch, 1889	248673	3627	0	33 31	1668	0	11				52708
	261128	8570	ŏ	91	5826	ŏ	51	1	• •		42024
ept. , (14 weeks)	291085	3657	ŏ	3	4407	ŏ	8	1	• •		
,, , , , , , , , , , , , , , , , , , , ,	299565	4098	ŏ	3 1	6520	ŏ			• •		47743
ec. "	20000	4000	U	oz	0020	U	51		• •		55671
arch, 1890 (12 weeks)	243911	3421	0	31 31	5001	0	47				45135
une " (14 weeks)	302728	8983	0	8 <u>1</u>	6216	0	47				84939
ept. ,,	296599	3759	0	3	7301	0	57				89664
ec. ,,	330638	3984	Ó	27	7978	0	57				42186
larch. 1891	305909	4063	0	31	7047	e	51				44000
	336379	4125	ŏ	07							44878
,,				27	8605	0	6				85248
ept. ,,	377646	4234	0	28	8594	0	5				49584
ec. ,,	411915	4522	0	25	7234	0	41				54737
arch, 1892	373558	4570	0	27	7644	0	47				58840
ane	343857	4566	ŏ	37	6817	ŏ	47		• •		54424
ept.	404503	4713	ŏ	93	11377	ŏ	63				50504
ec. ,,	442203	5137	ŏ	23 23	11232	ŏ	6	••	• •		
,,			•		11202				••		60481
Iarch, 1893	372336	5685	0	89	9233	0	5%				52258
nne "	377646	5378	Õ	3 3	8323	ŏ	51	::	• •		52913
	15783515	20 9060	0	3 <u>1</u>	259247			167	••		
	Less Loss				167						,
	Leaves V	et Profit			259050						
	Denves A	et Front			209050	0	3 7				

NEWCASTLE BRANCH DRAPERY TRADE.

From the time of commencing to keep a separate Account.

Data	Calas	EXPE	NSES.	Prop	FIT.	CALLE
Date.	Sales.	Amount.	Rate.	Amount.	Rate.	Stocks.
	£	£	s. d.	£	s. d.	£
April. 1876	6990	318	0 103	117	0 4	8696
July "	9534	419	$0.10\frac{1}{2}$	120	0 8	8037
October " (14 weeks)	12052	456	$0 9\frac{5}{12}$	444	0 87	10942
January, 1877	11320	535	0 111	115	$0 2 \frac{7}{16}$	11525
April ,	12394	537 .	0 103	386	0 7.7	11321
July "	13707	555	0 93	331	$\begin{array}{ccc} 0 & 7\frac{1}{1}\frac{7}{6} \\ 0 & 5\frac{7}{8} \end{array}$	11142
October "	12719	545	0 10	114	$0 \ 2\frac{1}{8}$	12068
January, 1878	10739	574	1 07	168	0 33	11635
	10589	554	1 03	213	0 43	11040
	10563	550	1 0	213	0 44	
July "			1 03			9678
October "	11834	515	0 10§	294	$0.5\frac{7}{8}$	10331
January, 1879	11225	540	0 11	103	$0 \ 2\frac{1}{8}$	10463
March " (10 weeks)	8592	448	$\begin{array}{ccc} 1 & 0\frac{1}{4} \\ 1 & 0\frac{1}{5} \end{array}$	224	$0.6\frac{1}{4}$	11404
June ,, (14 weeks)	11025	583	1 08	213	0 48	9531
Sept.	11111	544	0 113	227	0 42	10576
Dec. ,,	13946	578	$0 9_{8}^{7}$	207	0 38	11590
March. 1880	14399	622	0 103	548	0 94	15114
June ,	13770	598	0 10%	751	ĭ ĭ	15778
Sept.	12599	624	0 112	566	0 103	16992
	15211	650	0 101	841		
Dec. "	15211	000	0 103	941	0 54	16171
March, 1881	15827	666	0 10	601	0 94	15779
June ,	16949	654	0 91	785	0 11	14972
Sept. "	16499	657	$0.9\frac{1}{2}$	445	0 64	15812
Dec. "	19806	679	$\begin{array}{ccc} 0 & 9\frac{1}{3} \\ 0 & 8\frac{1}{8} \end{array}$	508	0 64	16075
March, 1882	18605	711	0 9	943	1 01	16677
June	20018	h 727	0 85	720	0 8	16358
Sept. "	19620	725	0 82	659	0 8	16067
Dec. ,,	26214	812	0 87 0 78	1334	1 01	15754
March, 1883	22157	837	0 9	829	0 87	17957
June	24710	830	0 8	1259	1 0	15699
Sept.	22703	842	0 87	925	0 93	18258
Dec. "	29784	878	0 7	1486	0 114	16594
March, 1884	26436	907	0 81	991	0 9	10077
June (14 weeks)	29550	1011	0 81	1125		18875
					$0.9\frac{1}{5}$	18062
Sept. "	26800	1021	0 91	862	0 78	18470
Dec. ,,	85559	1044	0 7	1525	0 104	18906
March, 1885	33946	1062	0 71 0 73 0 73 0 73	1651	0 115	20675
June ,,	35822	1114	0 73	1671	0 111	22002
Sept.	33776	1104	0 73	1801	$1 \ 0^{\frac{3}{4}}$	22923
Dec. "	39157	1318	0 8	1783	0 10%	24084
March, 1886	34600	1274	0 83	1616	0 111	23606
-	39560	1804	$\begin{array}{ccc} 0 & 8\frac{3}{4} \\ 0 & 7\frac{7}{8} \end{array}$	2093		22461
04	34858	1261	0 88	1748		
	43415	1503	0 88 0 81			26253
Dec. "	49419	1909	0 63	2110	0 118	28645

NEWCASTLE BRANCH DRAPERY TRADE. -Con.

From the time of commencing to keep a separate Account.

Date.	Sales.	EXPE	NSES.	PROI	IT.	Stocks
Date.	Sales.	Amount.	Rate.	Amount.	Rate.	Stocks
	£	£	s. d.	£	s. d.	£
March, 1887	33556	1454	0 103	1414	0 104	29452
June	36689	1514	0 97	1369	0 87	26594
Sept.	35716	1378	0 91	1807		27540
Dec. ,	38752	1522	0 93	1255	0 7	25758
March, 1888	37258	1464	0 93	1778	0 118	28326
Juoe	41885	1527	0 93 0 83	1497	0 8	27390
Sept.	86675	1416	0 9	1620	0 101	26756
Dec. ",	46156	1566	0 8	1588	0 7	30177
March, 1839	40867	1647	0 95	1179	0 67	83308
June ,	46641	1642	0 9g 0 8g	1787	0 91	28639
Sept. , (14 weeks)	45285	1526	U 8	2247	0 11	29344
Dec. ",	52650	1700	0 73	2887	0 10%	32799
March, 1890 (12 weeks)	51449	1641	0 7%	2090	0 99	85387
June , (14 weeks)	64451	1769	0 7 5 0 6 3	8518	ĭ ĭ i s	31444
Sept.	52614	1666	0 7	1928	0 83	84019
Dec. ,,	63846	1774	$\begin{array}{ccc} 0 & 7\frac{1}{2} \\ 0 & 6\frac{1}{2} \end{array}$	3052	0 11	33216
March, 1891	64660	1861	0 67	8102	0 114	3546
June	61882	1848	0 71	3255	1 03	84561
Sept.	56368	1833	0 7	2111		38584
Dec. "	6855 6	1958	0 71 0 73 0 63	2418	0 82	3596
March, 1892	56448	1956	0 81	1949	0 81	42429
June	50808	1841	0 82	2019	0 81 0 91	31215
Sept.	59924	1866	0 73	3015	1 02	84938
Dec. "	73823	2133	0 81 0 85 0 73 0 63	2748	o sz	36570
March. 1893	61141	2220	0 85	2026	0 7%	4856
June ,,	66823	2469	0 83	2963	0 108	38860
	2245563	78877	0 83	90961	0 95	

NEWCASTLE BRANCH BOOT AND SHOE TRADE.

From the time of commencing to keep a separate Account.

QUARTERLY ACCOUNTS.

Data	G-1	ExpE	NSES.	Pro	FIT.	Lo	ss.	G4 - 1
Date.	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stock
	£	£	s. d.	£	s. d.	£	s. d.	£
April, 1876	5058	149	0 71			110	0 5-3	1154
July ,,	6969	159	0 51	284	0 98		18	1326
October " (14 wks)	8006	179	0 71 0 51 0 51 0 51	101	0 3			1180
January, 1877	5346	162	0 71	181	0 52			1505
April	6211	170	0 71 0 51	130	0 5			1584
July "	6871	175	0 61	171	0 57			1526
October "	8254	207	0 6	266	0 57 0 73		::	1885
Jannary, 1878	7089	208	0 7년	123	0 41	l		2242
April	6772	210	0 71	123	0 49		::	2577
July "	7252	226	$\begin{array}{ccc} 0 & 7\frac{1}{16} \\ 0 & 7\frac{1}{2} \\ 0 & 7\frac{3}{8} \end{array}$	57	0 41 0 43 0 17		••	8105
October "	7441	221	0 7	116	0 8	::	••	2080
January, 1879	6910	223	0 73	14	0 04			3179
March ,, (10 wks)	5138	193	0 9	25	0 11	::	::	3708
June " (14 wks)	6919	245	0 84	83	$\begin{array}{ccc} 0 & 1\frac{1}{6} \\ 0 & 2\frac{1}{8} \end{array}$			2587
September,	7733	233	0 7	103	0 31	1 1	••	2448
December ,,	7918	264	0 8	146	0 31 0 4	::	::	4681
March. 1880	9101	845	0 9	241	0 61			5200
June "	8058	325	0 98	189	0 5		• •	5787
September "	8599	271		174	0 4		• •	4815
December "	9215	335	$\begin{array}{ccc} 0 & 7\frac{1}{2} \\ 0 & 8\frac{3}{4} \end{array}$	45	0 1	::	••	5971
farch, 1881	9592	329	0 81	193	0 49			4632
June ,,	10465	322	0 81 0 73	38	0 07		• • • • • • • • • • • • • • • • • • • •	5262
1,	10958	324	0 78	427	0 9			4372
Sept. "	11976	332	0 68	280	0 43 0 03 0 93 0 53		••	4645
March, 1882	11988	351	0 7	240	0 43			5110
	13064	351	0 68	416	0 7			5027
				340	0 57	••	••	5749
Sept. "	13672 15763	376 449	0 6½ 0 6¾	340	0 43 0 78 0 58 0 58	::	••	6561
darch, 1883	14318	480	0 8	298	0 47			5988
The state of the s	16635	477	0 62	384	0 51			6018
	16146	491		544	0 8		••	5877
	18402	507	0 7½ 0 6½	664	0 8	::	••	5817
. "	,		_		J		••	
Iarch, 1884	16982	565	0 73	885	0 48		• •	6508
une ,, (14 wks)	19686	589	0 7 8 0 8 3 0 8 3 0 8 3 0 0 8 3 0 0 8 3 0 0 0 0	787	0 8	••	••	7740
Sept. ,,	18020	660	0 83	352	0 45 0 5	••	••	7728
Dec. "	20366	594	0 6%	493	0 5	••	••	8266
March, 1885	20514	621	0 71 0 65	660	0 78			7877
une "	22600	636	0 6§	612	$0 - 6\frac{7}{2}$		••	8057
Sept. ,,	21646	668	0 71	650	0 71 0 28		••	8276
Dec. "	24357	858	0 83	278	0 25			11319

Note.—To December, 1888, the figures include Furnishing Department.

NEWCASTLE BRANCH BOOT AND SHOE TRADE .- Con.

From the time of commencing to keep a separate Account.

Date	Calas	EXPE	NSES.	Pro	OFIT.	Lo	88.	Stocks
Date.	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks
	£	£	s. d.	£	s. d.	£	s. d.	
March, 1886	1856	846	0 9	408	0 42	1	••	10687
June ,,	26262	906	0 8	439	0 4			11686
Sept. ,,	23452	897	0 9		0 5			13662
Dec. ,,	25578	997	0 9	277	$0 \ 2\frac{1}{2}$		••	13442
March, 1887	21650	1020	0 11	234	0 21			12164
June "	22594	999	0 10	195	0 2	1		13721
Sept. ,,	23988	909	0 9	454	0 41	1		12909
Dec. "	22797	1001	0 10	290	0 3		••	13974
March, 1888	24279	940	0 93		0 37	l	••	12619
June ,,	26027	1009	0 9	401	0 35	1		13398
Sept. "	24055	989	0 9	615	0 6	1		12181
Dec. ,,	26911	1090	0 9	128	0 6 6 8 0 1 8 0 1 8 0		• •	14483
March, 1889	18785	891	0 11	259	$\begin{array}{ccc} 0 & 3\frac{1}{4} \\ 0 & 2\frac{3}{4} \end{array}$	1		10155
June ,,	24659	920	0 8	286	0 23	1		15164
Sept. , (14 weeks)		874	0 8 0 8 0 9	406	0 37		••	12948
Dec. ,,	22430	885	0 9	285	0 3		••	12463
March, 1890 (12 weeks)		861	0 8	299	0 3			19117
June ,, (14 weeks)		972	0 7		0 51		••	14720
Sept. ,,	28227	975	0 8		0 5			16058
Dec. ,,	29667	945	0 7	678	0 5g		• •	11870
March, 1891	32032	957	0 7	591	0 43			14834
June ,,	33249	983	0 7		0 63		••	15129
Sept. ,,	31857	981	0 7		0 57			14706
Dec. "	27569	950	0 8	865	$\begin{array}{ccc} 0 & 4\frac{3}{5} \\ 0 & 6\frac{3}{5} \\ 0 & 5\frac{7}{2} \\ 0 & 7\frac{1}{2} \end{array}$		••	12628
March, 1892		987	0 8			6		14524
June ,,	29330	990	0 8	651	0 51	"		15712
Sept. ,,	33516	1006	0 7 0 7	1046	0 5 1 0 7	::	•••	17056
Dec. "	33857	1081	0 7	940	0 68		••	15567
March, 1893		1273	0 9	436	0 31			21670
June ,	23339	1217	0 9	574	0 3½ 0 4½	::		26127
	1281973 Less	43781 Loss	0 8	25446 116	::	116	••	
	Lea	ves Net P	rofit	25330	0 45	-		

^{*} Note.-To December, 1888, the figures include Furnishing Department.

NEWCASTLE BRANCH FURNISHING TRADE.

From the time of commencing to keep a separate Account.

	Date		Sales.	Expe	INSES.	PRO	FIT.	Lo	SS.	Stocks
	Date	•	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks
March, June Sept. Dec.	"	(14 weeks)	£ *6345 12845 12578 17310	£ 600 669 676 791	s. d. $1\ 10\frac{5}{1}$ $1\ 0\frac{3}{5}$ $1\ 0\frac{7}{5}$ $0\ 10\frac{7}{5}$	£ 165 172	s. d. 0 31 0 23 0 23	£ 340 109	s. d. 1 0 ³ / ₄ 0 2	£ 4742 7731 6757 6636
March, June Sept. Dec.		(12 weeks) (14 weeks)	15620 26038 21604 26147	741 928 897 985	$\begin{array}{ccc} 0 & 11\frac{3}{8} \\ 0 & 8\frac{1}{2} \\ 0 & 9\frac{7}{8} \\ 0 & 9 \end{array}$	349 848 366 936	$\begin{array}{ccc} 0 & 5\frac{1}{4} \\ 0 & 7\frac{3}{4} \\ 0 & 4 \\ 0 & 8\frac{1}{2} \end{array}$::	 	7784 9046 9074 10474
March, June Sept. Dec.	1891		22761 28616 21524 26338	967 1077 1038 1138	$\begin{array}{c} 0 \ 10\frac{1}{8} \\ 0 \ 9 \\ 0 \ 11\frac{1}{2} \\ 0 \ 10\frac{1}{4} \end{array}$	260 1020 278 620	$\begin{array}{ccc} 0 & 2\frac{5}{8} \\ 0 & 8\frac{1}{2} \\ 0 & 3 \\ 0 & 5\frac{5}{8} \end{array}$::	:: ::	11415 12518 12367 12002
March, June Sept. Dec.	1892	• • • • • • • • • • • • • • • • • • • •	18068 16604 20914 26379	1020 996 1011 1160	$\begin{array}{ccc} 1 & 1\frac{1}{2} \\ 1 & 2\frac{5}{5} \\ 0 & 11\frac{1}{2} \\ 0 & 10\frac{1}{2} \end{array}$	150 386 739	0 2½ 0 4½ 0 6§	51	0 0§	12184 11854 10787 11833
March, June	1893		$\begin{array}{c} 17382 \\ 23182 \end{array}$	1172 1481	$\begin{array}{ccc} 1 & 4\frac{1}{8} \\ 1 & 3\frac{1}{4} \end{array}$	340	$0^{^{\prime\prime}}3_{2}^{1}$	225	0 3	12515 12964
			360257 Less	17347 Loss	0 11½	6629 725	::	725		
			Leav	es Net Pr	ofit	5904	0 37			

^{*} Carpets transferred to this Department in following quarter.

LONDON BRANCH GROCERY TRADE.

From the time of commencing to keep a separate Account.

		EXPE	NSES.	PROF	IT.	
Date.	SALES.	Am'nt.	Rate.	Amount.	Rate.	Stocks
	£		s. d	£	s. d.	£
July, 1674	17472 26734	440 587	0 6 0 5‡	381 68	0 4	6628 11039
January, 1875	28179	515	0 45	168	0 13	7815
April ,,	25966	585	0 5	157	0 13	4829
July "	30695	597	0 44	101	0 03	4877
October "	87126	597	0 87	558	0 83	5194
January, 1876	86965	586	0 83	778	0 5	7219
April "	87278	784	0 43	609	0 4	4190
uly ,	48089	704	0 8	895	0 5	5616
October " (14 weeks)	55687	743	0 8	1422	0 6	1827
January, 1877	48880	845	0 41	1256	0 61	12668
pril "	46783	822	0 43	641	0 8	8059
uly ,,	50612	826	0 84	218	0 1	6141
October "	62001	811	0 8	925	0 8	6597
January, 1878	51019	824	0 84	536	0 2	10511
pril "	48716	815	0 4	605	0 8	9068
uly "	49307	838	0 4	518	0 2	5988
October "	62502	831	0 8	551	0 2	8239
anuary, 1879	55789	697	0 84	714	0 8	8489
farch ,, (10 weeks)	89584	698	0 41	482	0 24	7917
une " (14 weeks)	59150	919	0 8	837	0 84	7833
eptember.,	64211	952	0 8	1374	0 5	9417
December,,	69715	1006	0 81	2546	0 8	18594
farch, 1880	60878	980	0 83	792	0 81	11167
nne "	66697	948	0 8	1086	0 84	9112
eptember "	76145	951	0 25	1088	0 8	12386
December "	71245	1187	0 4	598	0 2	20789
farch, 1881	62706	1528	0 53	87	0 03	17204
une ,,	67500	1254	0 48	610	0 2	13227
eptember ,,	82056 77486	1262 1266	0 8	864 583	0 2 1 2	12045 7894
December ,,	11400	1200	U Og	003	0 12	1091
farch, 1882	64724	1234	0 44	695	0 23	6652
une ,,	66084	1230	0 4	900	0 8	7615
eptember "	79407	1297	0 8	1006	0 8	11686
December "	86602	1240	0 88	1175	0 81	10636
farch, 1883	76284	1279	0 4	847	0 24	7758
une "	76218	1274	0 4	748	0 2	8254
September ,,	92723	1288	0 8	1482	0 83	1853
December "	92528	1600	0 41	1558	0 4	13282
Iarch, 1884	79833	1440	0 41	1357	0 4	12758
une ,, (14 weeks)	88403	1515	0 4	969	0 23	12422
September ,,	100541	1433	0 83	1257	0 8	11849
December ,,	107186	1845	0 41	1479	0 31	18869

LONDON BRANCH GROCERY TRADE.—Con.

From the time of commencing to keep a separate Account.

		EXPE	NSES.	Prof	TT.	
Date.	SALES.	Am'nt	Rate.	Amount.	Rate.	Stocks
	£	£	s. d.			£
March, 1885	94496	1832	0 45	2482	0 61	18351
June	107506	1797	0 4	2121	0 45	16601
Sept. ",	117471	1822	0 35	1845	0 33	20042
December ,,	126403	2034	0 33	2653	0 5	24256
March, 1886	114451	2094	0 43	3195	0 65	19629
June ,	118740	2019	0 4	1934	0 37	15310
September ,,	139957	2032	0 38	1694	$0 \ 2\frac{7}{8}$	20453
December "	154756	2318	0 31	2896	0 4 3	24739
March, 1887	128667	2387	0 41	1971	0 33	27940
June "	152416	2686	0 4	2130	0 3 3	27026
September "	174234	2543	0 3	2706	0 3§	32589
December ,	187565	3720	0 45	2032	$0 - 2\frac{1}{2}$	47319
March, 1888	162077	3292	0 47	2576	0 33	37010
June "	171465	3323	0 48	1390	0 15	32296
September "	191133	3626	0 43	1841	$\begin{array}{ccc} 0 & 2\frac{1}{4} \\ 0 & 3\frac{7}{8} \end{array}$	40973
December "	214604	3787	υ 4 ξ	3570	0 37	41562
March, 1889	178797	3557	0 43	2291	0 3	37114
June "	199566	3727	0 48	4227	0 5	39856
September " (14 weeks)	234344	3816	0 3 7	1775	0 13 0 23	43068
December "	235671	4076	0 48	2374	0 23	44017
March, 1890 (12] weeks)	190477	3825	0 43	3244	0 4	44947
June ,, (14 weeks)	218790	4242	0 48	2084	$0 - 2\frac{1}{4}$	37671
September "	222986	4132	0 48	2901	0 8	47143
December "	261217	4821	0 4	4439	0 4	57847
March, 1891	245815	4956	0 43	3153	0 3	49228
June ,,	256359	5078	0 43	3163	0 27	46274
September ,,	287105	5084	0 4	1517	0 11	56994
December ,,	e335 1 9	5792	0 4§	3605	$0 2\frac{1}{2}$	75578
March, 1892	281030	5827	0 47	4927	$\begin{array}{ccc} 0 & 4\frac{1}{8} \\ 0 & 1\frac{1}{3} \end{array}$	64499
June "	285441	5827	0 47	1789		49482
September ,,	302234	5825	0 45	2251	0 13	60193
December "	337740	6311	0 43	4566	0 35	73398
March, 1893	281378	5990	0 5	4625	0 35	63075
June ,	286482	6132	0 51	2756	0 2}	51931
t	9627497	173548	0 41	128179	0 31	

LONDON BRANCH DRAPERY TRADE.

From the time of commencing to keep a separate Account. . .

QUARTERLY ACCOUNTS.

		SALES.		EXPE	NSES.	PROF	IT.	ĺ
Date.	Drapery	Boots and Shoes.	Total.	Amount	Rate.	Amount.	Rate.	Stock
	£			<u> </u>	s. d.	£	s. d.	£
September, 1880		8366	8366	72	0 51	78	0 54	1215
December ,,		8134	4791	240	1 0	Loss 42	0 22	8805
March, 1881		2909	5418	806	1 14	do. 92	0 4	4524
June ,,	0000	8178	5826	807	1 1½ 1 0g	Profit 27	0 i	4780
September "	8110	8497	6607	311	0 113	18	0 08	5118
December	1001	8869	8160	844	0 111 0 101	196	0 5	7054
farch, 1882	4050	8027	7077	858	1 0	72	0 53	6776
une ,		8472	7054	893	1 18	28	0 02	6846
September "	4413	4382	8795	406	0 11"	126	0 8	7059
December	1001	4748	9639	479	0 117	86	0 21	9524
darch, 1883	=000	8566	8646	500	1 17	87	0 2	8854
une "	4=00	4560	9326	577	1 23	91	0 21	9486
September ,,	2000	5099	10365	644	1 17 1 23 1 25 1 25 1 25	22	0 0	8180
December ,,		4758	11400	691	1 25	86	0 13	10011
farch, 1884	7504	8989	11448	665	1 17	27	0 01	8992
nne " (14 wks	6306	4718	11024	688	18	158	0 8	8308
eptember ,,		6259	12860	703	1 11	165	0 8	9689
December ,,	8592	4910	18502	751	1 11	182	0 81 0 27 0 13	9977
farch, 1885	9178	4694	13867	802	1 14	171	0 27	10497
une ,,	8897	5729	14626	901	1 22	91	0 1	9936
September "	9875	6369	16244	834	1 23 1 01 1 11 1 12 1 23	89	0 11 0 43 0 27	10642
December "	12503	5532	. 18035	1017	1 1	833	0 4	11502
farch, 1886	12994	5402	18396	1065	1 17	228	0 27	11102
une ,,	12257	5939	18196	1127	1 23	15	0 07	11084
eptember ,,	13005	7541	20546	1107	1 07	166	0 17	12366
December "	15498	7208	22701	1230	1 1	872	0 87	13713
March, 1887	14158	5838	19996	1228	1 28 1 21	Loss 65	0 04	16022
une ,,	15689	6503	22192	1318	1 21	Profit 97	0 1	15710
September ,,	13966	6850	20816	1294	1 25	Loss 39	0 03	17571
December "	. 19411		19411	1690	1 87	do. 184	0 21	14967
March, 1888			16955	1652	1 113	do. 586	0 7	18637
June "			19660	1703	1 83 2 08	do. 80	0 0	17888
September "		••••	16832	1728	2 08	do. 737	0 10	18036
December "			24441	1818	1 53	do. 210	0 2	19484
March, 1889			19404	1878	1 111	do. 1025	1 05	23621
nne "			12964	1898	2 13	do. 213	0 87	18591
September ,, (14wks			14165	1401	1 112	do. 779	1 1	19998
December ,,	. 14922		14922	1383	1 10	do. 942	1 3	18189
March, 1890 (12wks		• • • • •	18889	1296	1 10	do. 1790	1 3 6 6	16342
une ,, (14wks	16646	••••	16646	1365	1 7	do. 88	0 14	12962
September ,,			15915	1284	1 7	do. 840	0 5 0 8 0 13	15200
December ,,		• • • • •	20634	1372	1 84	Profit 816	0 85	12607
farch, 1891		• • • • •	18244	1378		Loss 138	0 13	16268
une "	1.00.4	••••	18717	1487	1 63	do. 822	0 4	15276
Sertember "			17994	1484	1 7½ 1 8½	Profit 103	0 13	20145
December ,,	. 23628 19094	••••	23628	1503		do. 850	0 8	18030
March, 1892	. 22580	• • • • •	19094	1680		Loss 360 Profit 9	$0 \ 4\frac{1}{2}$	22996
	. 18706	••••	22580	1633	1 5½ 1 8½		0 12	19052
		• • • • •	18706 25421	1596	1 4	Loss 136 Profit 350		21207
December ,,		• • • • •	21041	1700	1 73	Loss 269	0 3	19147 23054
Inne ,,	20851		20851	1763	1 8	do. 86	0 07	20415
	652032	140991 Less Pro	793023 fit	56151	1 47	Loss 8428 4134		
						!		
		Leaves N				4289	0 11	

Note.—To Sept., 1887, and March, 1889, Boot and Shoe and Furnishing figures included respectively.

LONDON BRANCH BOOT AND SHOE TRADE.

From the time of commencing to keep a separate Account.

Date.	Sales.	Ехре	NSES.	Pro	FIT.	Los	8S.	Stocks
		Amount	Rate.	Amount	Rate.	Amount	Rate.	
	£	£	s. d.	£	s. d.	£	s. d.	£
December, 1887	7155	323	0 103			47	0 11	3891
March, 1888	5600	874	1 4			42	0 13	4464
une, ,,	7760	878	0 11%	47	0 13			4225
September, ,,	7937	418	1 08	40	0 1	1 1		4762
December, ,,	8806	428	0 118	44	0 18	::	••	4884
March, 1889	7239	444	1 28			107	0 31	4784
une.	8482	428	1 0	132	0 32		_	4486
September, , (14 weeks)	8946	453	1 01			30	0 03	5451
	7986	466	1 2	•••	• •	50		6305
December, "	1900	400		••	••	50	0 11/2	0000
March, 1890 (12 weeks)	7670	433	1 1½ 1 0¾ 1 0¾ 1 1¾	67	0 2	l	. • •	5637
une, ,, (14 weeks)	9154	491	1 03			8	0 01	6225
September, ,,	9478	491	1 03	63	0 12			6370
December, ,,	9225	518	1 13	43	0 15		••	6051
March, 1891	8866	556	1 3			57	0 13	6509
June, ,,	10440	590	1 11			45	0 1	7281
September, ,,	10833	584	1 07	65	0 13			7281
December, ,,	11110	587	1 0% 1 0%	61	0 12	1 1	••	7337
.,			_		-4			
March, 1892	9183	658	1 51			182	0 43	8043
June, "	12742	682	1 04	80	0 04	1 1		7193
September, ,,	11362	758	1 4			130	$0 2\frac{3}{4}$	11296
December "	13157	830	1 4			284	$0.5\frac{1}{8}$	12194
March, 1893	10676	883	1 73			248	0 51	14094
June, ,,	12507	857	1 73 1 43			193	0 35	13849
The state of the s	216314	12675	1 2	592		1423		
ł		1				1		
1	Less Profi	t	• • • • • • • • • • • • • • • • • • • •	••		592	••	
		_		-				
]	Leaves Ne	et Loss				831	0 07	

LONDON BRANCH FURNISHING TRADE.

From the time of commencing to keep a separate Account.

	Date.		EXPENSES.		PROFIT.		Loss.		Stocks
			Amount	Rate	Amount	Rate.	Amount	Rate.	
		£	£	8. (. £	s. d.			, £
June,	1889	7014	504	1 8	1 23	0 03	1	s. d.	4512
September,	" (14 weeks)	7145	619	1 8	ž	"	190		4525
December,	,,	7925	682	1 8	28	••	166	0 68 0 5	4526
March.	1890 (12 weeks)	7170	684	1 5	1		181		5118
June.	,, (14 weeks)	8055	685	îŝ	6	0 01		0 43	4656
September,	,, (==,	7444	650	î è	4		405		4228
December,	"	9204	718	î	<u> </u>		89	1 1	8957
o cocinoci,	,,	0201	120	• •	2		00	0 21	0001
March,	1891	10064	779	1 6	1		78	2.2	4618
une.	,,	9700	1 779	î i	3	••	85	0 12	4526
September,	,,	9137	746	î i	<u> </u>	••	170	0 2	4785
December,	"	12082	752	î	1 15	0 01		0 48	4698
becemier,	,,	12002	102	1 2	E 13	0 02	•••		4090
March.	1892	9441	812	1 8	5		42	••	5296
June.	11	10944	876	i i	65	0 13		0 1	5468
September,	11	9719	865	i	1 00	_	103	0 23	5532
December	"	10912	936	i i	Ŧ ··	• •	116	0 23	5761
December	"	10312	900	1 0	2	• • •	110	0 22	9101
March.	1893	9509	929	1 11	ε		269	0 63	6518
Jane.		9985	898	1 9	9	•••	92	0 2	6667
	,,		630		*		- 64	U 28	0007
	l	155450	12854	1 7	² 109		1996		
		Le	ess Profit.	••••	• • • • • • • • • • • • • • • • • • • •		109		
		Le	aves Net	Loss			1827	0 22	

HECKMONDWIKE CURRYING SUPPLIES, &c., STATED SEPARATELY. FIGURES INCLUDED IN HECKMONDWIKE ACCOUNTS.

From its Commencement.

				LAFENSES.	.83		PR	PROFIT.	Loss.	· ·	
	Supplies.	Sundry.	Depre-	Interest	Total.	Rate per £ on Supplies	Amount	Rate per £ on Supplies.	Amount	Rate per £ on Supplies.	Stocks.
	4	37	3	લ્સ	37		- Sq	8. d.	ु	s. d.	32
December, 1887	538	391	27	17	435		22	2 04	:	:	218
March, 1888	1086	492	27	8	539		231	4 3	:	:	158
:	525	967	45	90	571		:	:	44	1 85	397
: :	921	473	97	35	551		186	4 03	:	:	401
Dec., ,,	833	604	51	37	692		9	0 114	:	:	687
arch, 1889	1045	459	51	35	545		-	:	:	:	3 83
June, "	759	154	15	38	241		:	:	9	1 62	217
	864	515	62	36	613		44	1 05	:	:	181
	595	500	22	36	809		:	:	186	9 9	90g
, 1890	1031	549	09	0#	679		173	3 45	:	:	365
ne, ,,	969	555	92	4	670	14 113	73	1 73	:	:	143
	1097	610	99	Ŧ	717		:	:	253	0 113	248
	1089	647	99	9	753		198	3 75	:	:	399
arch, 1891	1125	269	99	7	804		9	78° O	:	:	392
ine, " " " ine	855	615	99		723		:	:	65	C1 C2 E24	525
Pt., ,,	11+1	298	9	22	902		226	3 118	:	:	276
	1313	614	99	彈	722		166	5 5	:	:	415
March, 1892	936	286	99	7	†69		:	:	22	1 62	353
June, ,,	799	565	99	27	673		:	:	101	2 64	289
	606	548	99	57	929		134	2 115	:	:	381
	1111	651	99	24	759		4	0	:	:	286
	1048	632	:6	3	740		550	:	:	:	524
June, " "	989	282	89	3	869	20 42	:	:	198	5 73	503
	21158	12847	1347	865	15059	14 24	1799	i	805	:	:
					Less]	Less Loss	805	:			
					Logroo N	Longo Not Drogt	200	0 111			

HECKMONDWIKE BOOT AND SHOE WORKS TRADE.

From its Commencement.

QUARTERLY ACCOUNTS.

	Stocks.	4	1856 2473	2293 3637 3136 2238	2934 3186 3996 4016	5104 5111 4585 3950
,088.	Rate.	s. d.	0 87	22.23	0 : 0	
NET LOSS.	Amount	ભ	169	196 139 244 26	8 :42	
ROFIT.	Rate.	8. d.	::	::::	0	940°
NET PROFIT.	Amount	લ	::	::::	:8 : :	55 107 92 92
DUCTION.	Per £.	8. d.	6 8	6 104 6 104 6 73	6 67 7 11 6 65 6 65	7 114 7 114 8 8
RATE ON PRODUCTION.	Per ceut.	£ 8. d.	81 5 8 82 5 114	82 8 1 84 10 10 83 7 25 83 5 55	89 17 111 89 17 61 88 5 01 82 14 1	88 18 7 88 88 88 88 88 88 88 88 88 88 88 88
	Total.	બ	229 874	989 856 823 1138	1187 1160 1226 1717	1578 1072 1402 1873
SES.	Interest	ભ	29.1	8 4 4 2	2332	2284
EXPENSES.	Depre-	લ	20.00	11111	16 17 17	71 71
	s undry.	ભ	225 832	942 800 761 1089	1125 1102 1161 1653	1307 994 1325 1809
	tion.	બ	782 2706	3052 2478 2467 3420	3608 2909 3687 5250	4130 2696 8083 5618
Net	Sup- plies.	બ	2349	2508 1913 2507 3623	3548 2986 2923 5145	3899 2901 3948 5918
	Date.		1880	March, 1881	1882	1888
			Sept., Dec.,	March, June, Sept., Dec.,	March, June, Sept., Dec.,	March, June, Sept., Dec.,

4461 8916 8916 8934 4774 5056 5314 6171 8462 8869	6733 6155 5454 5382	7326 8116 9020 10863	9462 9166 11153 10280	10365 12466 11596 11825	109C3 16018 16164 14594	13021 15149 17802 15875	17917 21145	:	
55	 0	0 1	0 . 23	 	::::	0.63	0.104	ı	_
131	138	8 : : :	.60	114	::::	246	238	2247	
423 - 20-124 - 1-0-12	. 0 . 0 . 2 . 2 . 2 . 2 . 2 . 2 . 3	0 115 1 65 0 44	3 0 ³	1 8% 1 77 0 53	1 18 0 8 1 93 0 03	0 93 1 73 1 84	4L 0	::	0 74
244 244 244 27 771 157 287 151	40 72 263	257 628 165	977	512 740 260	631 246 881 1522	.:. 832 990	381	12480 2247	10233
2000 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 53 7 10 9 65 9 05	7.87.8 3.004.	6 112 7 0 7 331 7 1331	6 98 87 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2403 33403	7 005 7 05 7 84	250 8 8	8 13 Loss	Leaves Net Profit 1023
988 989 981 6 6 8 8 989 981 6 8 8 98 98 98 98 98 98 98 98 98 98 98 98	32 8 2 44 7 33 37 14 103 45 7 55	46 5 93 54 9. 03 44 9 62 40 16 11	44 15 04 45 8 53 46 18 13 45 6 24	44 7 53 46 4 73 43 16 10 44 11 93	45 9 111 46 0 65 48 5 45 43 12 03	44 15 63 41 10 53 42 5 63 42 18 9	47 3 93 48 4 83	40 14 23 Less I	Leaves No
1450 1450 2118 1959 2008 2008 2260 2275 2116 1924	1729 1441 1902 2731	2465 2201 2650 3131	2494 2352 2758 2840	2705 2992 3211 3644	3900 3661 3764 4198	4034 3908 3968 4955	4914 4206	121719	
282588588588 86288588	5888	125 140 159 164	162 185 178	207 209 201 201	195 218 212	217 220 280	257 290	6270	
	74 74 91	111 118 125 134	138 138 158	163 192 182 183	8888 8888	188 200 205	227 231	4856	1
1392 1138 1138 11526 1526 1526 1537 1130 2047	1555 1271 1742 2542	2329 1943 2366 2833	2194 2052 2415 2494	2362 2598 2820 8261	3257 3257 3329 3798	3629 3490 3518 4518	4430 3685	110598	
4662 8179 4169 6128 6128 5556 8968 5800 8487 6171 6171	5335 8248 5039 6019	5325 4042 5958 7673	5573 5178 5880 6268	6096 6472 7324 8172	8572 7954 8699 9628	9009 9412 9386 11540	10413 8720	298988	
4559 4334 4334 6153 6153 8878 5254 7939 5254 7939 5646 6938	4888 3936 5251 8494	6526 5293 8059 9429	7418 6613 7472 8817	7955 7617 8903 10660	11088 7363 9778 14690	11233 9206 10255 15504	12008	333165	
1885	=	March, 1888 June, ,, Sept., ,, Doc., ,,	1889, (14 weeks)	1890 (12 weeks) ,, (14 weeks)	1891	1892	1893		
March, June, Sept., Dec., June, Sept., Dec., June, Sept., Dec.,	March, June, Sept., Dec.,	March, June, Sept., Dec.,	March, June, Sept., Dec.,	March, J June, Sept., Dec.,	March, June, Sept., Dec.,	March, June, Sept., Dec.	March, 1893 Jane, "		

CRUMPSALL BISCUIT WORKS TRADE.

From the time of commencing to keep a separate Account.

	Net	Pro-		Exp	ENSES.		RATI		NET P	ROFIT.	R
Date.		duction	Sundry.	Depre- ciation.	Interest	Total.	Per cent.		Amount	Rate per £.	Stock
	£	£	£	£	£	£	£ s. d.	s. d.	£	s. d.	£
January, 1874	2987	2878	604	60	87	751	26 1 10	5 21	15	0 11 0 5	1678
April "	2814	2790	506	68	92	666	23 18 1	4 9	61	0 5	1964
July "	8450	3426	502	80	124	706	20 11 6	4 11	192	1 11	1967
October "	35€0	8588	585	87	132	804	22 13 11	4 64	loss 16	0 1	1887
January, 1875	8865	8370	597	88	147	832	24 13 9	4 11	do. 9	0 0\$	3029
April ,	8575	8500	598	79	91	768	21 18 6	4 4	265	1 62	2137
July ,,	3529	8260	610	80	99	789	24 4 0	4 10	208	1 2	1656
October "	3380	3801	676	81	90	847	25 13 2	5 1	94	1 21 0 68	1488
January, 1876	8150	8331	631	84	91	806	24 8 4	4 10	145	0 11	1588
April "		8093	956	90	101	1147	37 1 8	7 53	18	0 1	2222
July "		4918	888	98	111	1097	22 6 1	4 5	221	0 111	1972
October "	4975	5039	789	103	113	1005	19 18 9	3 11	832	1 4	2295
January, 1877	8045	3015	649	107	116	872	28 18 5	5 9	64	0 5	2867
		4177	704	109	129	942	22 11 0	4 6	44	0 23	8067
T-1-	4440	4503	629	110	132	871	19 6 10	8 10	17	0 1	2919
October ,	5521	5158	740	111	118	969	18 16 0	8 9	115	0 5	2591
January, 1878	4176	4288	599	114	121	834	19 9 0	3 107	838	1 77	2961
	4115		665	114	127	906	24 6 0	4 10	818	1 6	3008
Ten 1en	4217	4144	620	114	120	854	20 12 2	4 1	191	i 04	2608
October ,	51(9	5229	821	114	118	1053	20 2 9	4 01	614	3 54	2524
January, 1879	4112	4184	692	139	116	947	22 12 8	4 6	400	1 103	2506
March "	2958	2701	550	106	91	747	27 18 8	5 6	181	1 4	2687
*June ,	4515	4512	812	148	124	1084	24 0 2	4 95	168	0 87	2614
September.,	4716	4677	781	139	114	1084	22 2 2	4 5	808	1 8	2817
December "	4439	4564	709	139	118	966	21 2 10	4 27	852	1 6	2835
March, 1880	4277	4268	799	139	107	1045	24 9 8	4 102	loss 12	6 04	2540
Tanana	4550	4546	676	143	109	928	20 8 3	4 1	288	1 84	2439
September ,,	5227	5107	750	145	109	1004	19 13 2	8 114	389	i 61	1946
December	5099	5148	760	145	104	1009	19 12 0	3 11	318	i 2	1798
March, 1881	4024	4156	703	144	106	953	22 18 7	4 7	165	0 94	2038
June "	4863	4727	767	144	111	1022	21 12 4	4 34	45	0 21	2464
September "	5823	6046	►85	144	109	1088	18 0 0	8 71	471	1 63	2183
December "	5412	5945	751	144	103	998	18 13 2	8 71 3 83	206	1 63 0 91	2105
March, 1882		4725	771	144	104	1019	21 11 4	4 83	265	1 18 0 77 2 18	1899
June "	5064	4975	772	144	101	1017	20 8 0	4 1	164	0 77	2188
September .,	5860	5921	777	144	99	1020	17 4 6	3 5	632	2 1	2089
December "	5975	5957	775	146	97	1018	17 1 10	3 5	437	1 5	1708
March, 1883		5245	756	147	103	1006	19 3 7	B 10	496	1 105	2399
June "	5407	5100	828	147	105	1080	21 3 6	4 23	169	0 77 2 8	2299
September ,,	5915	5580	860	147	101	1108	19 17 1	8 11	630		2076
December "	5787	5787	784	148	99	1031	17 16 3	8 63	786	2 81	1896
March, 1884		4920	884	148	105	1137	23 2 2	4 78	190	0 91	8201
*June "	5409	5098	997	158	108	1263	24 15 5	4 111	845	1 4	2425
September "	5828	5965	1694	177	117	1388	23 5 4	4 73	609	2 0	2111
December ,	5572	5582	866	182	100	1148	20 11 4	4 11	886	3 2	2129

^{*} Fourteen Weeks. † Ten weeks.

CRUMPSALL BISCUIT WORKS TRADE.—Con.

From the time of commencing to keep a separate Account.

Net	Pro-		EXP	ENSES.		RATE PRODUC		NET E	PROFIT.	
Date. Sup- lies.	duction	Sundry.	Depre- ciation.	Interest	Total.			Amount	Rate per £.	Stocks
£	£	£	£	£	£	£ s. d.	s. d.	£	s. d.	£
March. 1885 4438	4600	1114	190	110	1414	30 14 9	$6 \frac{13}{4}$	94	0 47	2707
June 5514	5213	1168	192	107	1467	28 2 9	5 75	283	i i	3154
September " 5762	6250	1339	202	117	1658	26 10 6	$\begin{array}{ccc} 6 & 1\frac{3}{4} \\ 5 & 7\frac{1}{2} \\ 5 & 3\frac{5}{8} \end{array}$	304	0 118	3604
December , 5765	5767	1173	202	120	1495	25 18 51	5 21	810	2 98	3534
March, 1886 5133	5092	1242	202	123	1567	30 15 5	6 13	48	$0 \ 2\frac{1}{3}$	3747
June " 5494	5698	1322	207	119	1648	28 18 5	5 355 5 214 6 134 5 934	115	0 5	3960
September , 5920	6060	1695	207	124	2026	33 8 73	6 8	loss 258	0 102	4479
December , 6987	6035	1556	281	163	2000	$\begin{vmatrix} 33 & 8 & 7\frac{3}{4} \\ 33 & 2 & 9\frac{1}{2} \end{vmatrix}$	6 75	34	0 11	4207
March, 1887 6311	6637	1409	285	161	1855	27 18 113	5 7	215		4285
	6035	1512	313	196	2021	33 9 9	6 81	loss 191	$\begin{array}{ccc} 0 & 8\frac{1}{5} \\ 0 & 6\frac{7}{5} \end{array}$	4396
		1664	340	188					0 83	
September, 7466	8879				2192	24 13 87	4 11	123		5357
December ,, 7935	7549	1786	340	200	2326	$30 \ 16 \ 2\frac{7}{8}$	6 1_8^7	loss 150	0 42	5518
March, 1888 7053	7404	1540	340	215	2095	28 5 10%	$\begin{array}{ccc} 5 & 7\frac{7}{8} \\ 6 & 2\frac{5}{8} \end{array}$	do. 223	0 7½ 0 5¾	5958
une " 7427	7265	1709	340	212	2261	$31 \ 2 \ 5\frac{7}{8}$	6 25	180	0 5₹	6468
September ,, 8921	9188	1740	342	217	2299	$25 ext{ } 0 ext{ } 5\frac{3}{8}$	5 0	loss 195	$0.5\frac{1}{2}$	6903
December ,, 8678	8298	1627	342	218	2187	$26 \ 7 \ 1\frac{3}{8}$	$5 3\frac{1}{4}$	16	0 03	7633
March, 1889 7689	8779	1602	342	229	2173	24 15 0 1	4 113	94	0 24	8892
une " 10285	8530	1713	342	226	2281	26 14 93	5 43	469	0 107	7463
Sept. , 12420	14900	2178	343	247	2768	18 11 63	3 81	142	$0 2\frac{3}{4}$	10655
December ,, 11687	10627	1990	348	227	2565	$24 \ 2 \ 8\frac{5}{4}$	4 9%	569	0 118	9411
March, 1890 10870	10988	2147	322	225	2694	24 10 41	4 103	48	1	9436
June , 12179	10603	2433	376	234	3043	28 13 113	5 87	721	1 2	9538
September, 14647	19258	2481	348	244	3073	15 19 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	loss 336	0 53	13097
December , 14220	13348	2370	348	254	2972	22 5 48	4 58	loss 394	0 65	10001
Iarch, 1891 14526	14346	2476	348	261	3085	21 10 1	4 31	769	1 05	12575
nne " 15122	12262	2720	422	296	3438	28 0 9	$\frac{4}{5}$ $\frac{3\frac{1}{2}}{7\frac{1}{4}}$	672	0 102	12621
September , 21160	24594	3421	503	380	4304	17 10 0	3 6	220	0 23	19472
December , 17753	19740	3257	505	375	4137	20.19 13	4 71	1620	$\begin{array}{ccc} 0 & 2\frac{7}{2} \\ 1 & 9\frac{7}{8} \end{array}$	22353
Iarch, 1892 15174	14749	3231	506	420	4157	28 3 83	5 75	1512	1 117	19633
une , 14880	11629	3065	510	394	3969	28 3 88 34 2 78	5 75 6 97	Loss 178	0 24	19042
September, 20023	31647	3959	511	452	4922	15 11 08	3 17	693	0 81	31512
December ,, 20620	17555	3401	511	462	4374	$24 \ 18 \ 3\frac{3}{4}$	4 113	458	$0 5\frac{1}{4}$	28264
Iarch, 189319893	14001	3044	511	436	3991	28 10 1 ₈	5 83	800	0 95	22855
une , 19517	17759	3337	514	885	4236	23 17 01	4 91	281	0 38	21623
580324	582811	105539	17477	13256	136272	28 7 78	4 8	23427		
				Less	Loss			1962		
						ofit		21465	0 87	

^{*} Fourteen Weeks.

LEICESTER BOOT AND SHOE WORKS TRADE.

From the time of commencing to keep a separate Account.

	Net	Produc-		EXPEN	SES.	
Date.	Sup- plies.	tion.	Sundry.	Depre- ciation.	Interest.	Total
	£	£	£	£	£	£
anuary, 1874	3422	5190	1281	6	29	131
April "	4506	10794	1512	7	42	156
uly "	7787	10120	2673	7	77	275
October "	8065	8323	2671	10	101	278
anuary, 1875	9148	9447	8191	12	122	832
	11022	10881	3461	29	107	
uly "	18987	14610	4320	84		859
October ,	15418	15349	4863	80	127 158	448 504
	10000	10000	4000	-		
annary, 1876	18265	13362	4292	81	158	447
pril "	13602	11642	4190	81	151	487
uly ,	15214	17921	5104	82	166	530
October "	19818	16419	6209	87	224	652
anuary, 1877	14076	14122	5128	96	239	546
pril "	15870	14869	4968	102	268	588
uly "	19155	19658	6673	104	275	705
october "	18551	18119	6042	105	247	689
anuary, 1878	17564	14962	5674	105	288	601
pril	15671	17902	5591	105	267	596
uly	22014	18840	7423	106	259	778
ctober ,,	18226	17154	5718	106	284	605
anuary, 1879	17970	19043	7170	107	288	751
	12947	15196	5025			
*	21462	19585	6896	82 117	187	529
eptember,	19879	19389			254	726
December	23688	23576	7825	109	216	765
Zecember "	20000	20070	8770	109	288	916
farch. 1880	20675	24892	8445	110	848	890
une	23571	20933	7004	110	810	742
eptember "	18670	17610	6602	112	804	701
ecember ,,	21739	21494	7815	112	279	820
farch, 1881	16827	20698	6775	112	298	710
une ,,	26921	28471	8772	112	271	718
eptember ,	20723	21174	7884	112	261	915
ecember "	23136	23807	9301	112	257	820 967
farch. 1882	19610	22487	8163	123		
	27552	25002	8808	123	311	859
eptember "	26787	26702			276	920
ecember "	25149	25326	9702 9715	124 126	268 258	1009 1009
Iarch. 1883	21493	00000				-
		22090	8278	124	312	871
une "	25255	22929	8499	124	278	889
eptember "	21777	20418	7880	124	228	823
December ,,	23461	24777	9211	139	227	957
farch, 1884	21478	25093	8729	141	254	912
June "	32190	81418	11336	179	823	1183
eptember "	29282	25995	9946	252	371	10569
December ,,	24216	23827	9226	266	319	981

^{*} Fourteen weeks. † Ten weeks.

LEICESTER BOOT AND SHOE WORKS TRADE.—Continued.

From the time of commencing to keep a separate Account.

	RATE ON PR	ODUCTION.	NET P	ROFIT.	Ner l	Loss.	
Date.	Per cent.	Per £.	Amount	Rate.	Amount	Rate.	Stocks.
Jannary, 1874 April ,	£ s. d. 25 6 8 20 14 9 27 4 8 33 8 6	s. d. 5 03 4 65 5 55 6 84	£ 108 111 373	s. d. 0 53 0 38 0 111	£ 8	s. d. 0 0½	£ 2579 2504 4366 5716
January, 1875 April ,, July ,, October ,,	34 13 6 30 13 5	$\begin{array}{ccc} 7 & 0\frac{1}{2} \\ 6 & 11\frac{1}{4} \\ 6 & 1\frac{1}{2} \\ 6 & 7 \end{array}$	1158	1 .57 1 .57	8 175 174	0 01 0 33 0 25	6466 6956 8809 10773
January, 1876 April ,, July ,, *October ,,	37 10 11 29 11 8	$ \begin{array}{ccc} 6 & 8\frac{1}{4} \\ 7 & 6 \\ 5 & 11 \\ 7 & 11\frac{1}{4} \end{array} $	108 226 165 629	$\begin{array}{ccc} 0 & 2 \\ 0 & 4 \\ 0 & 2\frac{3}{5} \\ 0 & 7\frac{13}{16} \end{array}$		•	9186 10025 11149 12677
January, 1877April ,,July ,,October ,,	35 18 0 35 17 8	7 83 7 21 7 21 7 01	496 17	$\begin{array}{cccc} & \ddots & & \\ 0 & 6 & & \\ 0 & 0_{1\bar{a}} & & \end{array}$	134 28	0 21 0 01 	14191 18018 15634 16692
January, 1878 April ,, July ,, October ,,	33 6 3 41 6 9	8 0½ 6 8 8 3½ 7 0½	79 665 807	$\begin{array}{ccc} 0 & 1 \\ 0 & 7 \\ 0 & 70 \\ 0 & 10 \\ \end{array}$	279	0 813	12922 15104 14416 14495
January, 1879	34 16 9 87 2 1 39 9 4	7 103 6 11½ 7 5 7 103 7 9¼	24 851 954 424	0 83 0 5½ 0 113 0 4½	84	0 1 ::	14515 16649 11456 10996 24783
March, 1880 June ,, September ,, December ,,	35 9 1 39 17 0	7 8½ 7 1½ 7 11½ 7 7½	760 248	0 88 0 38	156 1161	0 1½ 1 0¾	28388 20330 14662 15772
March, 1881 June ,, September ,, December ,,	39 0 1 38 15 2	6 11½ 7 9½ 7 9 8 1½	934 63 410	0 103 0 08 0 48	955	0 98	19948 15048 16310 1559
March, 1882 June ,, September ,, December ,,	36 16 5 37 16 0	7 8 7 44 7 68 7 118	839 598 417 800	0 35 0 58 0 33 0 23	::		20870 15241 18487 14192
March, 1883 June ,, September ,, December ,,	. 38 15 11 . 40 6 41	7 10g 7 9 8 03 7 83 7 83	\$99 58 74	0 41 0 05 0 05 0 08	841	0 8	18248 13038 10389 10384
March, 1884* *June ,, September ,,	. 37 13 6 . 40 13 2	7 31 7 638 8 123 8 23	886 1730 743	0 83 1 11 0 63 	98	0 02	15796 19049 16274 17800

^{*} Fourteen weeks. † Ten weeks.

LEICESTER BOOT AND SHOE WORKS TRADE .- Continued.

From the time of commencing to keep a separate Account.

		Net	Produc-		EXPE	NSES.	
	Date.	Sup- plies.	tion.	Sundry.	Depre- ciation.	Interest.	Total.
		£	£	£	£	£	£
March. 1885		26769	27876	-905	268	849	10522
-			80386	11109	269	832	11710
September ,			24106	9330	270	825	9925
			25438	9502	270	809	10081
December "	••••••••	. 20000	20400	9002	210	308	10001
March. 1886		. 26923	32001	11057	276	840	11678
Jnne "		. 41536	88021	18750	276	313	14332
September "			26674	9718	276	298	10299
December "			26007	10206	276	293	1077
March. 1887		30476	84990	11855	280	840	12475
June			34884	12881	280	298	18459
September			26078	10825	280	289	10894
December ,,			28372	10834	280	303	11417
March. 1888		83925	36819	18082	280	. 366	13678
June "			40206	15831	280	847	1595
September			30077	12194	280	835	1280
December ,,			82858	12649	284	833	1826
March. 1889		37726	44479	15618	288	893	16299
June		54156	47577	17674	292	887	1885
September ,,	(14 weeks)	44423	41322	16966	825	416	1770
December ,,			42334	15740	831	437	1650
March. 1890	(12 weeks)	50644	51448	18281	307	470	1905
	(14 weeks)		61114	22790	360	498	2364
			50874	18847	233	510	1959
December ,,			57327	21548	240	661	2244
March. 1891		72088	63995	24294	248	687	2522
			59885	23034	249	645	2392
			55491	21329	249	663	2224
December ,,			51487	20693	249	684	2162
March. 1895	2	63457	61229	22467	791	976	2428
June	• · · · • · · · · · · · · · · · · · · ·		75562	27787	991	1058	2978
September			71494	28825	959	1092	3087
December "			84098	80782	1014	1238	3308
	3 (2 Quarters)		132940	54024	2289	2881	5919
		2378736	2393055	882533	18245	29269	93004

LEICESTER BOOT AND SHOE WORKS TRADE.—Continued.

From the time of commencing to keep a separate Account.

Date.	RATE ON Pa	oduction.	NET P	ROFIT.	NET :	Loss.	Stocks
	Per cent.	Per£.	Amount	Rate.	Amount	Rate.	
March, 1885	£ s. d. 37 14 11 38 10 9 41 3 51 39 12 7	8. d. 7 6½ 7 8¾ 8 2¾ 7 11⅓	£ 517 1241 296 1024	s. d. 0 43 0 93 0 24 0 98	£	s. d.	£ 18374 17401 16116 15752
March, 1886 June " September ", December ",	36 9 6 37 14 3 38 11 81 41 8 78	7 8½ 7 6½ 7 8½ 8 3§	688 2725 2121 525	0 5½ 1 35 1 6½ 0 4¾		••	20081 16020 16266 17786
March, 1887 June ,, September ,,	35 13 05 38 11 75 41 15 35 40 4 95	$\begin{array}{cccc} 7 & 1\frac{5}{8} \\ 7 & 8\frac{1}{2} \\ 8 & 4\frac{1}{4} \\ 8 & 0\frac{1}{2} \end{array}$	1337 2681 964 1362	$\begin{array}{ccc} 0 & 10\frac{1}{4} \\ 1 & 4\frac{1}{4} \\ 0 & 8\frac{1}{4} \\ 0 & 11\frac{1}{4} \end{array}$::	••	23050 19075 17666 19118
March, 1888	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccc} 7 & 5\frac{1}{8} \\ 7 & 11\frac{1}{2} \\ 8 & 6\frac{1}{8} \\ 8 & 0\frac{7}{8} \end{array}$	1920 3408 1147	$\begin{array}{ccc} 1 & 1\frac{1}{2} \\ 1 & 6 \\ 0 & 8\frac{1}{4} \\ & & & & & \\ & & & & & \\ \end{array}$	·· ·· 22	0 0½	23460 21218 20345 22496
March, 1889 June " September ", (14 weeks) December ",	36 12 10½ 38 11 6 42 17 0¼ 38 19 10§	7 8 6 3 8 6 3 7 9 1 2 1	2300 4311 1430 306	$\begin{array}{ccc} 1 & 2\frac{5}{8} \\ 1 & 7 \\ 0 & 7\frac{5}{8} \\ 0 & 2 \end{array}$::	28976 25876 26394 33265
March, 1890 (12 weeks) June " (14 weeks) September " December "	37 0 101 38 13 83 38 10 15 39 3 05	7 43 7 83 7 83 7 93 7 93	2053 4700 1046 944	0 95 1 51 0 55 0 5			85110 35058 43442 61935
March, 1891	39 8 51 39 19 11 40 1 71 42 0 08	7 10½ 7 11% 8 0% 8 4¾	1201 1812 755	$\begin{array}{ccc} 0 & 3\frac{7}{8} \\ 0 & 6\frac{3}{4} \\ 0 & 3\frac{7}{8} \\ & & & & & & \\ & & & & & \\ & & & & & $:: 1i74	.: 0 6 ³ / ₄	52523 55257 57066 62980
March 1892	39 11 87 39 8 48 43 3 83 43 5 73 44 10 68	7 10 ⁷ / ₅ 7 10 ¹ / ₅ 8 7 ⁶ / ₅ 7 10 ¹ / ₄ 8 10 ³ / ₄	4119 2065 5624	1 13 0 98 0 83	1181 '92 	0 4½ 0 0½	56163 55554 64317 97881 77716
	38 17 3g	7 91	69266	••	6015	••	••
	Less Loss		6015	:-			
	Leaves Ne	t Profit	63251	0 63	1		

DURHAM SOAP WORKS SUPPLIES, EXPENSES, PROFIT, AND STOCKS.

From its Commencement.

	Net	Pro-	Mary and the same	EXPE	NSES.	
Date.	Sup- plies.	duction.	Sundry.	Depre- ciation.	Interest.	Total
October, 1874	£ 161	£ 813	£ 32	£ 38	£ 4	£ 74
					1	- 11
January, 1875	1938	2163	98	87	81	216
April "	2510	2540	117	38	54	209
July ,,	2620 1874	2143 2484	128 139	39 39	49 54	216 232
,,		201	100	00	0.	202
January, 1876	2260	2142	128	89	56	223
April "	2657	2772	118	89	55	207
July "	2560 2550	2523	115	39	57	211
October "	2000	2146	125	39	69	233
January, 1877	1782	2284	135	60	90	285
April	2371	2621	134	71	105	310
fuly "	2801	2653	144	82	121	347
October ,,	2724	3388	196	89	108	393
January, 1878	3202	3251	210	94	114	418
April "	3085	8421	310	98	125	533
July "	3070	2660	191	98	125	414
October ,,	2947	2868	194	74	89	857
January, 1879	2633	2220	100	ne.	01	054
March ,	2032	2220	188 159	75 56	91 70	354 285
June	2582	2726	203	77	96	376
September ,,	2076	1912	169	72	92	333
December ,	2213	2423	184	72	91	847
March. 1880	2388	2055	199	72	or	356
June	2000 8095	3040	175	72	85 81	828
September ,,	3216	2987	193	78	79	845
December "	8031	3372	214	72	78	364
March, 1881	2656	2757	007	70	00	000
June	3254	8411	227 178	73 73	93 87	393 333
September ,,	3230	8340	199	78	97	369
December "	2731	2757	243	78	99	415
March 1999	0002	0.00			100	
March, 1882	8886 8480	3129	212	78	72	357
September "	8480 8282	3815 2795	212 179	78 78	98	383
December ,,	2703	2765	192	78	100	352 345
						010
March, 1883	3089	8479	197	78	83	858
June September	3237 4426	3251 5099	188	78	92	853
December ,,	3999	4112	267 258	78 80	85 99	425
			200	00	99	437
March, 1884	3855	8799	213	80	96	389
June ,,	8854	8659	224	87	99	410
September ,,	4008	3625	214	80	82	376
December "	3502	3638	198	80	66	844
March, 1885	4369	4311	243	80	66	389
June "	4691	4652	255	80	87	410
September ,,	4722	4702	266	80	45	430
December "	4129	4329	353	80	75	508

^{*} Fourteen weeks. † Ten weeks.

DURHAM SOAP WORKS SUPPLIES, EXPENSES, PROFIT, AND STOCKS.—Con.

From its Commencement.

	RATE ON PR	oduction.	NET PI	ROFIT.	NET	Loss.	
Date.	Per cent.	Per £.	Amount.	Rate.	Amount.	Rate.	Stocks
October, 1874	£ s. d. 9 2 0	s. d. 1 93	£	s. d.	£ 108	s. d. 18 43	£ 804
anuary, 1875	9 19 8	1 113	127	1 31			1809
April "	8 4 7	1 7₹	82	$\begin{array}{ccc} 1 & 3\frac{1}{2} \\ 0 & 7\frac{3}{4} \end{array}$	1]		1007
nly "	10 1 7	$\begin{array}{ccc} 2 & 0\frac{7}{4} \\ 1 & 10\frac{7}{4} \end{array}$	182	14	•••	••	1010 1751
October ,,	9 6 0	1 104	92	0 113		••	1101
annary, 1876	10 8 2	2 1			120	1 03	1303
pril "	7 9 4	1 6	11	0 1		••	1462
uly ",	8 7 3	1 8	97	0 9			2262
October "	10 7 1	2 2		••	23	0 2	3029
anuary, 1877	12 9 7	26	106	1 21			3871
pril ,,	11 16 7	2 41			177	1 57	3401
nly "	13 1 7	$\begin{array}{cccc} 2 & 4\frac{1}{4} \\ 2 & 7\frac{1}{4} \\ 2 & 4\frac{1}{4} \end{array}$	105	0 9			4353
ctober "	11 12 0	2 41 2 71 2 41 2 41		••	147	1 1	3289
anuary, 1878	12 17 2	2 7			88	0 6 9	3721
pril ,,	15 ii 7	ã i			142	0 101	4495
uly ,,	15 11 3	3 1		•••	283	$\begin{array}{ccc} 0 & 10\frac{1}{2} \\ 2 & 2\frac{3}{4} \end{array}$	3947
ctober "	12 8 11	2 53	::	••	109	0 11	3374
annary, 1879	15 18 11	3 21	İ		136	0 27	3130
March ,,	12 4 9	2 5	77	0 73			2705
June "	13 15 10	$\tilde{2}$ $\tilde{9}$					3657
eptember "	17 8 3	$\frac{2}{3} \frac{9}{5\frac{3}{4}}$			238	2 53	3536
ecember ,,	14 6 4	$2 \ 10\frac{7}{4}$	46	$0 ext{ } e$			3769
Iarch, 1880	17 6 5	3 55	7	0 07			2680
une "	10 15 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			63	0 5	2786
eptember "	11 14 11	2 41	170	1 17			2238
December "	10 15 10	2 2	24	$\begin{array}{ccc} 1 & 1\frac{7}{8} \\ 0 & 1\frac{7}{4} \end{array}$		• •	3571
farch, 1881	14 5 1	2 101	85	0 78			3426
nne "	9 15 3	2 10 1 1 11 3	117	0 8			3466
eptember "	11 0 11	2 24			16	0 1	5369
ecember "	15 1 0	$3 0\frac{7}{8}$		• •	54	0 48	3707
arch, 1882	11 8 2	2 33	57	0 43			2834
une "	10 0 9	2 0			113	0 7	5405
eptember "	12 11 10	2 61	40	0 33			3807
ecember "	12 9 6	2 6		• •	83	0 7½	2628
Iarch, 1883	10 2 10	2 01			38	$0 2\frac{1}{2}$	5047
une "	10 17 1	2 2	44	$0 \ 3\frac{1}{4}$		*	3838
eptember,	8 6 93	1 8	16	0 08		••	3990
ecember "	10 12 61	$2 1\frac{1}{2}$	40	$0 \ 2\frac{1}{4}$		••	5185
larch, 1884	10 4 9	2 01/2	29	0 13			4594
June "	11 4 1	$2 2\frac{7}{4}$			58	0 33	4323
eptember "	10 7 5	2 07	59	0 37	1	••	2936
ecember "	9 9 1	1 10§	62	0 4		••	3489
larch, 1885	9 0 51	$\begin{array}{ccc} 1 & 9\frac{5}{8} \\ 1 & 9\frac{1}{8} \\ 1 & 9\frac{7}{8} \end{array}$	65	0 81		••	3151
une "	8 16 3	$1 \ 9\frac{1}{9}$	294	$\begin{array}{ccc} 1 & 3\frac{1}{8} \\ 1 & 2\frac{7}{4} \end{array}$	}	••	6282
eptember "	9 2 103	1 97	292	1 25		• •	4458
December "	11 14 84	$2 ext{ } 4\frac{1}{8}$	256	$1 \ 2\frac{7}{8}$		• •	4361

^{*} Fourteen weeks. † Ten weeks. ‡ Twelve weeks.

DURHAM SOAP WORKS SUPPLIES, EXPENSES, PROFIT, AND STOCKS.—Con.

From its Commencement.

	Net	Pro-		EXPE	NSES.	
Date.	Sup- plies.	duction.	Sundry.	Depre- ciation.	Interest.	Total
	£	£	£		£	£
March. 1886		8727	258	80	71	404
June "		8979	286	80	61	427
September ,		3768	329	80	61	470
December ,,		4309	755	80	59	894
March, 1887	8485	3394	341	80	70	491
June		8066	312	80	59	451
September ,	3963	3754	840	80	57	477
December "	4627	4674	523	80	58	661
March, 1888	4641	4518	538	80	70	688
une ,,	4404	4198	448	80	74	602
September ,	6129	6245	460	80	64	604
December "	6582	7175	470	80	61	611
farch, 1889	5378	5657	551	82	80	713
June "		6089	410	82	76	568
Sept'mb'r ,		6410	476	82	75	688
December "	5886	5830	884	82	68	584
March, 1890		5914	432	75	68	575
June ,,		6764	459	88	64	611
September "		7754	445	82	60	587
December "	7835	7886	464	82	63	609
March, 1891		7106	416	44	74	534
une "		8505	495	48	67	605
September ,,		8403	449	48	70	562
December ,,	8137	8289	509	48	58	610
March, 1892		7585	451	48	78	572
June "		7913	441	43	78	562
September ,,		8142	458	48	62	558
December ,,	8993	8938	497	48	50 .	590
March, 1893		9171	486	43	52	581
Tune "	9142	9289	515	48	56	614
	329056	327700	22094	5230	5811	83185

^{*} Fourteen weeks.

[†] Ten weeks.

Twelve weeks.

DURHAM SOAP WORKS SUPPLIES, EXPENSES, PROFIT, AND STOCKS .-- Con.

From its Commencement.

	RATE ON PRO	DUCTION.	NET PE	ROFIT.	NET I	loss.	
Date.	Per cent.	Per £.	Amount.	Rate.	Amount.	Rate.	Stock s.
March, 1886 June ", September ", December ",	£ s. d. 10 16 91 10 14 71 12 9 55 20 4 54	s. d. 2 2 2 13 2 55 4 13	£ 288 209 216 28	s. d. 1 61 0 113 0 115 0 13	£	s. d.	£ 3373 3198 2707 3999
March, 1887 June ,, September ,, December ,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2 & 10 \\ 2 & 11 \\ 2 & 6 \\ 2 & 9 \\ 7 \end{array}$	210 92 183 89	$\begin{array}{ccc} 1 & 2\frac{5}{8} \\ 0 & 6\frac{3}{4} \\ 0 & 11 \\ 0 & 2 \end{array}$:	·· ··	4685 3756 2795 3637
March, 1888 June " September " December "	15 4 103 14 7 15 9 13 51 8 10 33	$\begin{array}{ccc} 3 & 0\frac{1}{2} \\ 2 & 10\frac{1}{2} \\ 1 & 11\frac{1}{8} \\ 1 & 8\frac{3}{8} \end{array}$	79 98 223 195	0 4 0 5 0 8§ 0 7		••	3833 3803 2901 5448
March, 1889 June " *Sept'mb'r " December ",	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccc} 2 & 6\frac{1}{9} \\ 1 & 10\frac{1}{9} \\ 1 & 11\frac{1}{9} \\ 1 & 9\frac{1}{9} \end{array} $	208 124 267	0 8 0 4 0 10 2	365	1 4½ .:	4986 5073 4371 4938
March, 1890 *June ,, September ,, December ,,	9 14 58 9 0 77 7 11 43 7 14 8	$\begin{array}{ccc} 1 & 11\frac{1}{4} \\ 1 & 9\frac{1}{5} \\ 1 & 6\frac{1}{2} \\ 1 & 6\frac{1}{2} \end{array}$	94 259 190 190	0 38 0 84 0 6 0 68		••	4749 4566 2838 5097
March, 1891 June ,, September ,, December ,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 6 1 5 1 4 1 5§	261 259 351 377	$\begin{array}{ccc} 0 & 8 \\ 0 & 7\frac{1}{2} \\ 0 & 9\frac{1}{4} \\ 0 & 11 \end{array}$		••	4509 4247 3465 5694
March, 1892 June ,, September ,, December ,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccc} 1 & 6\frac{1}{8} \\ 1 & 5 \\ 1 & 4\frac{3}{8} \\ 1 & 3\frac{7}{8} \end{array}$	274 349 810 883	$\begin{array}{ccc} 0 & 8\frac{1}{8} \\ 0 & 10\frac{1}{2} \\ 1 & 9\frac{1}{2} \\ 1 & 11\frac{1}{2} \end{array}$		••	6230 4720 3901 3251
March, 1893 June ,,	6 6 88 6 12 23	$\begin{array}{ccc} 1 & 3\frac{1}{8} \\ 1 & 3\frac{3}{4} \end{array}$	485 465	$\begin{array}{ccc} 1 & 0\frac{1}{8} \\ 1 & 0\frac{1}{8} \end{array}$::		2524 3001
	10 2 25 Less Loss	2 01	10283 2356	::	2356	••	•
	Leaves Net I	rofit	7927	0 53			

^{*} Fourteen weeks. † Ten weeks. ‡ Twelve weeks.

DUNSTON CORN MILL.

From its Commencement.

Net			EXPR	EXPENSES.		RATE	ON PR	RATE ON PRODUCTION.	TON.	NET PROFIT.	ROFIT.	NET LOSS.	LORR.	
	tion.	Sundry.	Depre- ciation.	Interest	Total.	Per cent.	cent.	Per £.	1	Amount	Rate.	Amount	Rate.	Stocks.
1	36691	2175	£ 702	£ 688	£	£ 9 14 8.	. T.	*-	4 E	4 5	# O	4 :	. d. :	\$3000
	76460	3251	1448	1086	5785	7 11	1 33	-	ಚ	:	:	1803	0 5	84734
	71953	8208	1476	1359	6303	8 15	5 24	-	6	459	0 13	i	:	72252
83456	83303	8888	1518	1383	0089	œ	S 53	-	-t-	:	:	5871	1 4	57064
84665	84703	4040	1531	1239	0089	œ	65	-	7	:	:	13718	3 0	87878
89872	89748	3803	1584	1148	6530	2	5 64	-	eas eas	1865	TT 0	:	:	28902
	89150	4497	1682	1147	7276	œ	3 23	-	-K	:	:	1114	18° 0	46831
78340	74627	3846	1639	1239	6724	6	0 23	-	8	:	:	3507	0 113	43646
76162	76018	4152	1639	1203	F609	6	4 0	-	10	:	:	1493	0 45	34368
671449	682553	33231	13164	10387	56782	œ	6 45	-	t-it	8125	:	26505	1	:
										Less	Less Profit	3125	i	:
_									•			1	1	

BATLEY WOOLLEN MILL TRADE.

From its Commencement.
QUARTERLY ACCOUNTS.

NET LOSS.	Amount Rate.	£ 8. d.	228 487	181 11 84 8569	6010	99 1 94 886 31 2 98 888 1187 80 1187 9 1187 9 1187 9 1187 9 118 1050 9 112 9 112 120 9 120 </th <th>6870</th>	6870
NET PROFIT.	Rate.	g. d.	:	:	0 53	19 11000000	rofit
	Amount	લ	:	i	33	100 110 110 110 110 110 110 110 110 110	1170 Less E
DUCTION.	Per £	8. d.	$34 10\frac{5}{8}$	8 10 ⁴	\$8 6	య1జూజంజంలు చెబెలల్లలు బంజంజంజంజం బంజం ఉబ్బడియా జూడియే దేవాడుకు ఇళ్ళి ఇద్దాని ఇయ్యానికి	9 13
RATE ON PRODUCTION.	Per cent.	£ 8. d.	174 9 13	44 5 35	48 9 4½	16884888888886748881466886881 8140005087688021357883188 808888487488548378888888888888888888888888	45 14 68
	Total.	37	321	1042	1187	1465 1403 1611 1920 1920 1563 1564 1746 1747 1705 1689 1689 1689 1689 1689 1689 1689 1689	41030
EXPENSES.	Interest	3	-	22	20	88 88 88 88 88 88 88 88 88 88 88 88 88	2611
EXPE	Depre-	3	67	15	54	28 28 28 28 28 28 28 28 28 28 28 28 28 2	2172
	Sundry	37	818	1006	1074	1322 1422 1422 1723 1723 1386 1438 1438 1528 1528 1540 1510 1510 1510 1510 1510 1510 1510	36247
Produc-	tion.	भ	184	2354	2449	8508 2808 2810 2810 2810 8002 8003 8004 8004 8004 8004 8004 8004 8004	89731
Net	Sup-	अ	:	320	· 1042	1116 2326 2326 910 5106 5116 5136 5137 8131 8074 8074 8074 4002 4002 4313 4701 4701 4882 3898 8888 8878 8878 8878 8878 8878 8878	86632
	Date.		March, 1887	June, 1887	Sept., ,,	Dec., ,,, March, 1888 Sept., ,, March, 1889 March, 1889 June, ,, (14 weeks). June, ,, (14 weeks). Jone, ,, (14 weeks). Jone, ,, (14 weeks). Jone, ,, (14 weeks). Sept., ,, March, 1891 Sept., ,, March, 1892 March, 1892 March, 1893	

LEEDS AND BATLEY READY-MADES DEPARTMENT.

From its Commencement.

1	Net		Expenses.	NSES.		NRT PROPIT.	OFIT.	100
Date.	Supplies.	Sandry.	Depreciation	Interest.	Total.	Amount.	Rate.	Stocks
	બ	બ	બ	ધ	બ	भ	s. d.	બ
December 1888	318	392	. 13	œ	413	Loss 182	11 54	320
March, 1889.	820	645	14	11	670	., 266	6 52	415
	1331	833	14	10	857	., 55	0 97	528
Scptember, 1889	893	929	15	15	989		4 3	620
December, 1889	1089	669	15	13	727		5 64	495
March, 1890 (12 weeks)	1394	869	14	15	727	Profit 56	0	066
June, 1890 (14 weeks)	2169	753	17	17	787			818
September, 1890	996	632	16	15	663			928
December, 1890	1673	1106	31	24	1161	Loss 258	3 03	1316
March, 1891	3417	1530	33	28	1591			1199
June, 1891	2381	1427	33	30	1490		1	1923
September, 1891	3344	1551	35	34	1620		2 04	2123
December, 1891	3787	1425	34	29	1488	., 183	0 114	1498
March, 1892	4311	2134	35	31	2200		1 94	2033
June, 1892	3816	1938	38	32	2008		8 0	1993
September, 1892	2695	1770	85	36	1844		0 24	2397
December, 1892	3654	2083	37	32	2152	Profit 153	0 10	2274
March, 1893.	5741	2583	34	34	2651		1 54	1825
June, 1893	4443	2556	35	30	2621		0 23	1959
					02.000		1	
	48241	25411	201	444	26356	Profit 675	94	:

LONGTON CROCKERY DEPOT-TRADE, &c. Since its Commencement.

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	Stocks.	43	282		608	736	730	1381	1122	1150	1929	2381	2508	3023	3014	2048	2716	2004	0008	8906	8986				<u>:</u>		
š.	Rate.	s, d.	0 1		: 	: :	:	:	:	:	: :	:	:		:	:	:	:	:	:	:	:		9 9	<u>:</u>		
Loss.	Amount.	વર	9 31	: :		: :	:	: :	:	:	: :	:	:	: :	:	:	:	:	:	:	:	:	: :2	3	96		
OFIT.	Rate.	s,	: :	0 130	1200	0	0	0 0		_	200			# 60 - 0		0 24) -) C	200	o G	22.0	:	: :		4.5
NET PROFIT.	Amount.	43	: :	17	383	56	8	8 2	53	194	8 25	159	747	906	137	104	14	233	3	100	001	200	80	:	2835 96		0000
PENSES.	Rate.	s. d.	- 22	1 -1 -	1 1 1	 6 25	4	1 55	1 03		N 4						1 64			41.0	1 2	# C	3	77 78 78	1 5		
TOTAL EXPENSES.	Amount.	લ	222	197	199	232	261	257	23.5	284	22.55 27.5	340	467	920	425	483	433	478	185	523	4.13	900	GZG.	9000	9866		
	Total.	લ	1855	2771	2922	9698 8696	3015	3580	4869	4240	4655	5250	5611	5337	6183	2600	5687	9794	6774	7744	7569	0807	5808	4377	140841	- Cab - Cab	
SUPPLIES.	Seottish.	43	i	. 43	¥E;	148 153	154	870 108	200	868	211	521	165	118	98	:	:	:	:	:	:	:	:	:	3566		
	Selves.	વા	1355	2728 2728	2881	3438	3761	3219	8950 4074	3877	4444	4729	5446	5219	6157	2600	2687	9794	6774	7744	7569	7540	2800	4977	137275		
Date	DAUG.		r, 1886	March, 1887	June ,,	1000	March, 1888	aber "	December ,,	June	· ·	Narch 1890 (12 weeks)	•		December .,		uber		1892	'une " " " " " " " " " " " " " " " " " " "		er	March, 1893	" eun			

MANCHESTER GROCERY AND PROVISION SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

IN YEARS.

YEAR ENDING	Sales.	EXPE	NSES		PRO	FIT.		Stocks.
TEAR EXPINO	Jaies.	Amount	Ra	te.	Amount	Ra	te.	COCMS
	£	£	s.	d.	£	s.	d.	£
January, 1875 (3 quarters)	1110155	11716	0	21	11986	0	23	71360
, 1876	1476536	14701	0	2	19042	0	8	56487
, 1877 (53 weeks)	1707637	17692	0	2	27998	0	87	6820
, 1878	1761017	16866	Õ	24	25745	Ó	81	58790
1879	1683618	17373	0	28	26502	0	8	55819
December, 1879 (50 weeks)	1590007	16761	Õ	221	28826	Õ	41	71446
,, 1880	1998384	18911	Õ	21	30977	ō	82	70091
1001	2047210	19883	ŏ	21	32460	ŏ	8	8727
1000	2298350	23666	ŏ	2	30644	ŏ	81	141191
1000	2544409	28337	ŏ		27455	ŏ	21	109414
1001 (50 modes)	2457288	28522	ŏ	93	24893	ŏ	21 22	10752
1005	2375945	27484	ŏ	23	41757	ŏ	41	9279
1000	2571435	29777	ŏ	93	41381	ŏ	83	113620
1007	2827624	82979	ŏ	222222	45516	ŏ	81	12956
1000	3092225	35914	ŏ	23	49798	ŏ	83	189849
1000 (20	3503195	39805	ŏ	28	61452	ŏ	41	11239
1900	3517114	41548	ŏ	63	65984	ŏ	41	12343
, 1890				25		ŏ	44	19216
, 1891	4112569	46620	0	28	74882			226266
,, 1892	4401000	55140		ð	59915	0	81	220200
	47075713	523695	0	25	727208	0	85	

MANCHESTER DRAPERY SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

YEAR ENDING	Sales.	EXPE	NSES.	PRO	FIT.	Los	38.	Stocks
	- Cuico	Amount	Rate.	Amount	Rate.	Amount	Rate.	1
	£	£	s. d.	£	s. d.	£	s. d.	£
Jan., 1874 (1 quarter)	10575	348	0 8	201	0 4.9			11568
, 1875	71290	3872	1 1	1244	0 41			36824
,, 1876	129486	7264	ī ī;	720	0 11	::::		72408
,, 1877 (53 weeks)	147083	9391	1 3	1		1420	0 21	89267
1070	124918	8879	1 5		••••	4144	0 7	48511
1070	134746	8518	1 31	635	0 1±		_	44439
Dec., 1879 (50 weeks)	126824	7817	1 2	1674	0 8	••••		43225
1000	189421	8511	1 2	2314	0 4		••••	4410
1001	132914	8168	1 23	1932	0 31		••••	42208
	143019		1 25 1 15 1 16	8504		1 [• • • •	
,, 1882	156997	8337	1 15			••••		40854
,, 1883		8976	1 18	4171	0 6			41868
" 1884 (53 weeks)		8365	1 0	5283	0 75 0 78			88026
, 1885	173233	9067	1 03	5387	0 78			44948
,, 1886	195139	9728	0 117	5333	$0 \ 6\frac{1}{2}$			54180
,, 1887	210705	10798	1 01	8624	0 41 0 42			59698
,, 1888	232277	11350	0 115	4791	0 47		• • • •	62110
" 1889 (53 weeks)	256449	13168	1 01	4539	$\begin{array}{ccc} 0 & 4\frac{1}{8} \\ 0 & 5\frac{1}{8} \end{array}$			87849
,, 1890	311365	15612	1 0	6991	0 5			84739
,, 1891	339213	16306	0 113	7915	0 53			82524
,, 1892	370495	18867	$1 0 \frac{1}{8}$	10136	$0 \ 6\frac{7}{2}$		••••	90744
	3571919	193342	1 07	70394		5564		
ess Depreciation allow Profit Account,	October, 18	77	£4757			1		ı
", Loss			5564	10321	• • • •			
Leaves Net Pr	ofit		:	60073	0 4			

MANCHESTER WOOLLENS AND READY-MADES DEPARTMENT.

From the time of commencing to publish a separate Account in Balance Sheet.

IN YEARS.

7773 A	D ENDING	Galas	EXPE	NSES.		PRO	FIT.		Lo	ss.	Charles
YEA	AR ENDING	Sales.	Amount	Rate	е.	Amount	Ra	te.	Amount	Rate.	- Stocks
		£	£	8.	d.	£	s.	d.	£	s. d.	£
December	r, 1884	20368	1221	1 5	23	409	0	43			4407
**	1885	21210	1249	1 5	21	836	0	33			5242
,,	1886	22173	1417	1 8	31	327	0	81/2			6275
**	1887	21820	1427	1 8	35				2		6112
**	1888	23047	1547	1 4	1				25	0 01	8450
2)	1889 (53 weeks)	26813	1845	1 4	41/2				212	0 17	12277
**	1890	26693	2095	1 6	63				1284	0 113	11463
,,	1891	31946	2465	1 (6 <u>1</u>				2294	1 51	19761
"	1892	40649	2949	1 8	58				4193	2 03	12958
		234719	16215	1 4	11/2	1072	<u></u>	••	8010		
		Le	ss Profit						1072		
		Le	aves Net	Loss					6938	0 7	

MANCHESTER BOOT AND SHOE SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

IN YEARS.

YEAR ENDING	Sales.	EXPE	NSES.	Prop	FIT.	Stocks
TEAR ENDING	Sales.	Amount	Rate.	Amount	Rate.	Stocks
	£	£	d.	£	d.	£
January, 1874 (1 quarter)	5506	204	83	1	• •	4715
,, 1875		1129	71	748	43 83	5197
, 1876	53885	1326	5∄	775	8§	7711
,, 1877 (53 weeks)		1811	83 74 56 74	586	28 81	6082
,, 1878		1975	81	786	81	7985
,, 1879		2192	83	767	8	10242
December, 1879 (50 weeks)	55270	2135	91	752	31	10964
,, 1880		2387	8 8 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	755	3 1 24	11484
, 1881		2492	83	842	23 34	11377
,, 1882		2583	81	1246	37	12564
,, 1883		2882	8	1261	31	12938
,, 1884 (53 weeks)		3150	71	1586	8\$	16567
,, 1885	106755	3596	8	1395	31	16074
,, 1886		3772	78	2767	31 58	16578
,, 1887		4070	79	8083	53	19727
,, 1888		4864	725 88 8	2940	5	22680
" 1889 (58 weeks)		5491	8	8772	51	24067
,, 1890		5983	74	4957	61	32095
,, 1891		7194	7½ 7å	4958	58	36875
,, 1892		9322	91/2	3044	· 81	52169
	2018511	68558	8 <u>1</u>	37021	43	

MANCHESTER FURNISHING SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

IN YEARS.

YEAR ENDING	Sales.	EXPE	NSES.	Pro	FIT.	Los	36.	Stocks
IBAR ENDING	Direct.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Decomb
	£	£	s. d.	£	s. d.	£	s. d.	£
an., 1877 (27 weeks)	5944	405	1 48			52	0 2	2571
,, 1878	15464	984	1 48 1 31	65	0 1			2286
,, 1879	17374	1185	1 41	140	0 17	1		2421
ec., 1879 (50 weeks)	18361	1108	1 41 1 2	60	0 04		••	3524
, 1880	24243	1317	1 1°	404	0 4			4307
1001	24844	1293	1 01	171	0 18			8971
1000	29021	1515	1 01	219	0 13	1		8630
1000	34804	1878	1 07	423		::		4274
1004 (EQ monled)	44311	2258	1 0	673	0 83			5433
,, 1885,	51238	2415	0 111	893	0 27 0 83 0 41		••	5817
1996	62340	2657	$0.10\frac{1}{2}$	1129	0 44 0 44			6041
1007	72932	3497	0 11%	946				9497
1000	85484	4755	1 11	546	0 3 0 13			8548
1000 (50 **** olta)	96163	4952	1 0	1436	0 34		•••	9770
1400	122661	5389	0 10%	2351	0 41 0 82	1 1	•••	12930
1001	137106	5993	0 103	2048	0 8			12567
,, 1892	142986	7559	1 0	319	0 01		• •	18455
	985276	49155	0 11%	11823	•••	52		
	Less	Loss		52				
	Leav	es Net Pr	ofit	11771	0 24	-		

NEWCASTLE BRANCH GROCERY AND PROVISION SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

	YEAR ENDING	Sales.	EXPE	SEP.	Prop	TIT.		Stocks.
	11111 111111111111111111111111111111111	Suites.	Amount	Rate.	Amount	Ra	te.	OLOCAS.
		£	£	s. d.	£	8.	d.	£
January,	1877 (53 weeks)	529244	7727	$0 \ 3\frac{1}{2}$	4531	0	2	84591
12	1878	541783	8213	0 3	4139	0	13	28996
11	1879		7402	0 37	3168	0	16	22789
December.	1879 (50 weeks)	465108	6823	0 3	7234	0	38	49145
11	1880	588664	7868	$0 \ 3\frac{7}{8}$	4636	0	17	44398
11	1881	703337	8921	0 3	9296	0	31	54648
11	1882		10098	0 3	8741	0	23	65330
11	1888	871597	10785	0 24	10476	0	27	55152
"	1884 (53 weeks)	930803	11395	0 27	12451	ŏ	81	65158
"	1885	936542	12075	0 3	14422	Õ	278 88 38 38	53546
11	1886		12321	0 3	18794	Õ	45	71265
"	1887		14220	0 34	11026	0	25	59632
"	1888	1027528	14125	0 8	19143	Õ	4200000 4200000	65838
"	1889 (53 weeks)	1100451	14947	$0.3\frac{7}{4}$	18421	Õ	4	55671
"	1890		15147	0 3	26496	ō	58	42136
11	1891		16944	0 23	31480	Ü	$5\frac{1}{4}$	54737
11	1892		18986	$0 2\frac{7}{8}$	37070	0	$5\frac{5}{8}$	60431
		15033583	197997	0 ' 31	241524	0	83	

NEWCASTLE BRANCH DRAPERY SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

IN YEARS.

YEAR ENDING	Sales.	EXPE	NSES.	Pro	FIT.	Stocks.
THAN DADING	Daics.	Amount.	Rate.	Amount.	Rate.	Stocks.
January, 1877 (58 weeks) , 1878. , 1879. December, 1879 (50 weeks). , 1880. , 1881. , 1882. , 1883. , 1884 (58 weeks). , 1885. , 1886. , 1887. , 1888. , 1888. , 1888. , 1888. , 1889 (53 weeks). , 1890. , 1890.	# 39896 49559 44161 44674 55979 69081 84457 99354 11×345 142701 152438 144713 161974 185443 292360 251466	£ 1728 2211 2159 2158 2494 2656 2975 3387 3983 4598 5342 5868 5978 6515 6850 7500	S. d. 0 1025 d. 0 1025 d. 0 1025 d. 0 1125 d.	£ 796 999 612 871 2206 2339 8656 4499 4508 6906 7562 5845 6873 7600 10588 10886	s. d. 0 43 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	£ 11525 11635 110463 11590 16171 16075 15754 18906 24084 28645 25587 80177 32799 33216 35964
,, 1892	241003	7796	$\begin{array}{ccc} 0 & 7\frac{1}{2} \\ 0 & 7\frac{3}{4} \end{array}$	9731	0 95	36570
	2117599	74188	0 83	85972	0 98	

NEWCASTLE BRANCH BOOT AND SHOE SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

	YEAR ENDING	Sales.	EXPE	NSES.	Pro	FIT.	Stocks
	TEAR ENDING	Sales.	Amount	Rate.	Amount	Rate.	Stocks
		£	£	s. d.	£	s. d.	£
January.	1877 (53 weeks)	25379	649	0 61	406	0 33	1505
11	1878		760	0 6	690	0 53	2242
"	1879	. 28375	880	0 7	810	$0 2\frac{3}{4}$	8179
December	, 1879 (50 weeks)	. 27708	935	0 8	357	0 8	4681
,,	1880		1276	0 83	649	0 43	5971
"	1881		1307	$0.7\frac{7}{2}$	938	0 51	4645
"	1882		1527	0 65	1336	0 54	6561
"	1883		1955	0 6§ 0 7§	1890	0 67	5817
"	1884 (53 weeks)		2408	0 78	1917	0 61	8266
"	1885		2783	0 78	2195	$\begin{array}{cc} 0 & 6\frac{7}{8} \\ 0 & 5\frac{7}{8} \end{array}$	11319
"	1886		8646	0 9	1619	0 4	13442
"	1887		8929	0 101	1173	0 8	13974
"	1888		8978	0 9	1547	0 35	14483
"	1889 (53 weeks)		8570		1236	0 37	12463
	1890		3753	0 98	2299	0 44	11870
"	1891		3871	0 7	8127	0 6	12628
"	1892		4064	0 73	2631	0 5	15567
		1215322	41291	0 81	24320	0 43	·

NEWCASTLE BRANCH FURNISHING SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

IN YEARS.

YEAR ENDING.	Sales.	EXPE	NSES.	Prop	eit.	Los	18.	Stocks.
TEAR ENDING:	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks.
Dec. 1889 (58 weeks)	£ 49078 89409 99241 81965	£ 2736 8551 4220 4187	s. d. 1 13 0 9½ 0 10½ 1 0¼	£ 2499 2178 1224	s. d. 0 68 0 51 0 32	£ 112	s. d. 0 0½	£ 6636 10474 12002 11833
	319693	14694	0 11	5901		112		
	Le	ss Loss		112	••••			
	Le	aves Net	Profit	5789	0 41			

LONDON BRANCH GROCERY SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

YEAR ENDING	Sales.	EXPE	NSES.	Prof	IT.	Stocks.
I BAR ENDING	Daics.	Amount.	Rate.	Amount.	Rate.	DIOCES
	£	£	s. d.	£	s. d.	£
fannary, 1875 (3 qrs.)	72385	1542	0 543545454545454555 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	567	0 175 vs proposition 175 vs prop	7315
,, 1876	130752	2365	0 43	1584	0 27	7219
,, 1877 (53 weeks)	184879	3026	0 37	4182	0 5	12668
,, 1878	210415	3283	0 33	2320	0 25 0 25	10511
., 1879	216314	3381	0 33	2388	0 2	8489
December, 1879 (50 weeks)	232660	3570	0 3	5239	0 5	13594
,, 1880	274965	4066	0 3	3559	0 31 0 12	20789
,, 1881	289748	5310	0 4	2149	0 13	7394
,, 1882	296767	5001	0 4	3776	0 3	10636
,, 18-3	837753	5441	0 37	4630	0 81 0 81	13282
" 1884 (53 weeks)	875963	6233	0 4	5062	0 8	18869
,, 1885	445876	7485	0 4	9101	0 44	24356
,, 1886	527904	8463	0 33	9719	0 47	24739
,, 1887	652882	11336	0 41	8839	0 43	47319
,, 1888	739279	14028	0 43	9877	0 8	41562
" 1889 (58 weeks)	848378	15176	0 41	10667	0 3	44017
1890	893470	17020	0 45 0 45 0 45 0 45 0 45	12668	0 83	57847
1891	1122798	20910	0 42	11438	0 2	75578
,, 1892	1206449	23790	$0.4\frac{3}{8}$	13533	0 88 0 28 0 28	78398
	9059637	161426	0 41	120798	0 31	

LONDON BRANCH DRAPERY SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

IN YEARS.

		SALES.		EXPE	NSES.	Pro	FIT.	Lo	ss.	l .
YEAR ENDING	Drapery and Fur- nishing	Boots and Shoes.	Total.	Amount.	Rate.	Amount.	Rate.	Amount.	Rate.	Stocks
	£	£	£	£	s. d	£	s. d.	£	s. d.	£
Dec., 1880 (2 grs.)	1657	6500	8157	312	0 91	36	0 1			3805
, 1881	12558	13448	26006	1268	0 118	149	0 13			7054
, 1882	16936	15629	32565	1636	1 0	312	0 21			9524
,, 1883	21754	17983	39737	2412	1 21	286	0 13		١	10011
, 1884 (58 wks)	29003	19826	48829	2807	1 13	532	0 25			9977
,, 1885	40448	22324	62772	3554	1 14	684	0 21 0 13 0 25 0 21			11502
,, 1886	53749	26090	79839	4529	1 1	776	0 21			13713
" 1887	63224	19191	82415	5530	1 4			191	0 01	14967
, 1888	77888		77888	6901	1 91			1513	0 45	19484
,, 1889 (53 wks)	61455		61455	6050	1 112			2959	0 113	18189
,, 1890	67084		67084	5817	1 7			1902	0 63	12607
,, 1891	78583		78583	5752	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			7		18020
,, 1892	85801	••••	85801	6609	1 63			137	0 03	19147
	610140	140991	751181	52677	1 43	2775		6709		
		Le	ss Profit			<i>.</i>		2775		
			Lea	aves Ne	t Loss.			3934	0 13	

Note.—To September, 1887, and March, 1889, Boot and Shoe and Furnishing figures included respectively.

LONDON BRANCH BOOT AND SHOE SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

VEAD	ENDING	Sales.	EXPE	NSES.	Pro	FIT.	Lo	ss.	C41
I DAN	ENDING	Sales.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocks.
December,	1887 (13 weeks)	£ 7155	£ 323	s. d. 0 10 ³ / ₄	£	s. d.	£ 47	s. d. 0 1½	£ 3891
19	1888	30103	1593	1 0§	89	0 05			4884
19	1889 (53 weeks)	32653	1791	1 1½			55	0 08	6305
11	1890	35527	1933	1 1	165	0 1			6051
19	1891	41249	2317	1 13	24	0 01/8			7337
19	1892	46444	2978	1 38			566	0 27	12194
		193131	10935	1 11/2	278		668		
		1	Less Loss				278		
		I	Leaves No	et Profit			390	0 03	

LONDON BRANCH FURNISHING SALES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate ${\it Account.}$

IN YEARS.

VEAD	YEAR ENDING		EXPE	NSE	8.	Pro	FIT.	Lo	ss.		Stocks.
ILAN	ENDING	Sales.	Amount	Rs	ite.	Amount	Rate.	Amount	Ra	te.	Stocks.
December,	1889 (40 weeks)	£ 22084	£ 1805	s. 1	d. 7½	£	s. d.	£ 833	s. 0	d. 8½	£ 4526
**	1890	31873	2682	1	81			619	0	48	8957
••	1891	40983	8056	1	57		••	318	0	13	4698
,,	1892	41016	3489	1	83			196	0	118	5761
		135956	11032	1	73			1466	0	21	

CRUMPSALL BISCUIT WORKS SUPPLIES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

	lies	ë.		Exp	ENSE	8.	P		TE DUCT		. l	PRO	ET FIT	.	NET :	Loss.	
YEAR ENDING	Net Supplies.	Production.	Sundry.	Depre- ciation.	Interest	Total.		Percent		Per £.		Amount	Rate	per £.	Amount	Rate per £.	Stocks.
fan., 1874* , 1875 , 1876 , 1877 , 1877 , 1879 , 1879 , 1879 , 1880 , 1881 , 1881 , 1884 , 1884 , 1886 , 1887 , 1889 , 1899 , 1899 , 1891 , 1890	£ 2987 13189 13664 15864 15866 18018 17553 19158 20122 21692 21497 21549 21479 24374 28314 32079 42081 51916 68561 70697	18126 17289 16454 19069 20274 21578 21712 21565 21830 22885 29100 32155 42836 54197	3095 3228 3841 4794 5815 6371 6616 7483 9431 11874 13656	4 60 323 324 398 444 481 532 572 576 578 665 786 665 786 1375 1394 1778 2038	# 87 495 371 441 500 481 447 429 429 429 430 454 529 745 862 929 957 1728	8842 9787 11782 14964 17422	22 23 25 19 21 23 20 20 18 19 22 27 21 21 23 20 20 20 20 20 21 22 27 21 21 22 21 21 22 21 21 21 22 21 21 21	1 18 19 13 18 15 5 18 0 17 9 17 12 12 16 9 16 14 1 1	-4	4 4 4 4 8 8 8 1 5 6 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	_	£ 158 2288 630 5144 983 887 1498 2081 2030 1491 1274 39 3281 2485 ————————————————————————————————————	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d. 144099104 9 9 2010144 110144 110148 11188	£	s. d	£ 167: 202: 153: 286: 296: 296: 250: 250: 250: 210: 170: 212: 252: 250: 250: 210: 170: 212: 255: 252: 252: 252: 252: 252: 252

LEICESTER BOOT AND SHOE WORKS SUPPLIES, EXPENSES, PROFIT, AND STOCKS.

From the time of commencing to keep a separate Account.

		ion.		Expe	NSES.		F	RA ROI	TE DUC			Pro	ET OF I			OSS		ej.
YEAR ENDING	Net Sup- plies.	Production.	Suu- dry.	Depre- ciation.	Interest	Total.		Per			er £.	Amount		Kate.	Amount	1	rate.	stocks.
	£	£	E	£	£	£	£	8.	đ.	s.	d.	£	s.	đ.	£	8.	d	£
Jan., 1874	* 3422			6				6	8	5	13	::.		٠.,	8	0	$0\frac{1}{2}$	2579
, 1873				36					11	5	48	584	0	35			•	646
,, 1876				124					6	6	65 25	912	0	4	••		•	918
,, 1877 1878				246 416	780			9	6	7		886	0	82				1413
1.000				424	1023 998			9	9	7	6	211 1575	0	8½ 0¾ 5½			•	1292 1451
Dec., 1879		77746		417	998				8	7	68	1645	ŏ	5 5		1	•	2473
1000				444				7	4	7	58		U	J	309	0	0.7	1577
1001				448		34217			8	7	8	452	0	11				1559
100.				495					8 5 2	7	73	1649	ŏ	1½ 3½	::		:	1419
,, 1888				511	1040		39	5	2	7	10}	190		01	::	i	:	1038
,, 1884				838	1267				7	7	91	3261	ő	01 73 61	::			1780
,, 1885					1315			3	7	7	10	3078	0	6		1		1575
,, 188				1104	1244			7	43 13	7	8	6059	0	113				1773
,, 1887	126417	124324	45895	1120	1230		38	16	13	7	91	6344	1	0	١			1911
,, 1888		189955	53206	1124	1381		39	16	15	7	115	6453	0	103		١.		2249
,, 1889										7	10	8347	0	118		١.		3326
,, 1890				1140					73	7	8	8743	0	101	٠.			6193
,, 1891				995		93024				8	08	2594	0	25 45				6298
1892	256116	292383	109811	3755	4364	117930	40	6	81	8	0 4	4961	0	48		_		9735
	2213903	2260115	828509	15956	2638 8	870853	38	10	71	7	83	57944			317			
	. '				Le	ss Los	s		•••			317						
					Le	aves N	et	Pro	fit			57627	0	61				

HECKMONDWIKE BOOTS, SHOES, AND CURRYING WORKS SUPPLIES, EXPENSES, PROFIT, AND STOCKS.

From its Commencement.

IN YEARS.

		Shoe tion.	Тот	AL E	XPEN	SES.			. RA		ON N.	Pro		NET:	Loss.	ui
YEAR ENDING	Total Sup- plies.	Boot & Shoe Production.	Sun- dry.	Depre-	Interest	Total.	Per	r ce	nt.		Per £.	Amount	Rate.	Amount	Rate.	Stocks.
	£	£	£	£	£	£	£	8.	d.	8.	d.	£	s. d.	£	s. d.	£
Dec., 18×0*	8000		1057			1103		1	7	6	47			181	1 0	2478
,, 1881			3592		157	3806	33	6	8	6	8			608	1 0	2238
,, 1882	14602		5041	66	183	5290	84	4	8	6				163	0 2	4016
,, 1883			5435		222	5725	34	19	17		117	294	0 4			3950
,, 1884			5924	94	220	6238	84	.7	10	6		287	0 3 0 2			3506
,, 1885.	22666		7832		256	8264	84	14	1	6	111	261	0 2			5314
,, 1886	22231		7867		405	8589		.9	81	7	33	875	0 4			6869
,, 1887.	22519		7110		880	7803		10	$3\frac{1}{6}$	7	6	237	0 2			5382
,, 1888	29307		9371	488	588	10447	35	8	105	7	08	1021	0 9	• • • • •		10863
,, 1:89+	29815		9155		687	10444		10	8	7	11	1922	1 5			10280
,, 1890	35135		11036		797	12552		15	91	6	115	1398	0 10		• • • • •	11325
,, 1891	42919		13903		872	15528		1	28	7	$2\frac{1}{2}$	3280				14594
,, 1892	46198	89347	15155	784	926	16865	85	15	10	7	17	2017	0 11	• • • • •		15875
	314479	279855	102478	4398	5728	112599			Los		0 2	11092 952		952		
					,	L	eave	8 1	et 1	Pro	fit	10140	0 8			

^{*} Two quarters.

HECKMONDWIKE CURRYING SUPPLIES, &c., STATED SEPARATELY.

FIGURES INCLUDED IN PREVIOUS ACCOUNT.

From its Commencement.

				Ex	PENS	SES.			Pro	FIT.	L	088.	
YEAR	RENDING	Supplies.	Sundry.	Depreci- ation.	Interest.	Total.		ra:c.	Amount.	date.	Amount.	Rate.	Stocks.
December, "" "" "" "" ""	1887 (one q'rter; 1888	3362	£ 391 2065 1937 2361 2524 2350	£ 27 169 227 262 264 264	£ 17 119 143 166 167		s. 16 13 14 13 14	d. 2 117 12 12 72 5	£ 55 413 390 340	s. d. 2 01 2 58 1 102 1 6½	£ 201 36	s. d. 1 23 0 2½	£ 213 687 306 899 415
		19425	11628 Less	1213 Loss	780	13621	14	01/4	1198 237		237		
			Leav	es Net	Prof	it			961	0 113			

[†] Fifty-three weeks.

DURHAM SOAP WORKS SUPPLIES, EXPENSES, PROFIT, AND STOCKS.

From its Commencement.

	I	EXPE	NSES.			RATE ODUC			ET OFIT.		ET OSS.	-		
YEAR ENDING	Net Sap- plies.	Production.	Sun- dry.	Depre-	Interest	Total.	P	er nt.	Per £.	Amount	Rate.	Amount	Rate.	Stocks.
fan., 1875* 1876 1876 1877 1878 1879 1879 1880 1880 1881 1882 1883 1884 1885 1885 1887 1889 1889 1889 1889 1889 1889 1889 1889 1889 1889 1889 1889 1890 1891 1891	£ 2099 9264 9549 11098 11735 8903 11730 11871 12801 14751 15219 17911 15886 24648 28456 33432 33981	£ 2976 9809 9725 11918 11169 9387 11404 12265 12504 15941 14721 14791 14791 14782 22126 23986 28318 32528 309240	£ 130 512 488 684 885 715 781 842 795 910 1117 1623 1516 1821 1800 1869 1842 21093	£ 755 155 1777 3866 345 2777 2899 2992 2999 3277 3200 3200 3288 3277 173 174 5144	£ 85 213 271 448 480 349 328 876 350 359 943 300 252 244 269 269 268 ———————————————————————————————————	$\mathbf{L}\mathbf{e}$	9 1 19 11 11 11 11 11 11 11 11 11 11 11	9 0 6 5 10 8 8 4 4 13 13 13 13 13 13 13 13 13 13 13 13 13	$\begin{array}{c c} 1 & 4\frac{3}{4} \\ \hline 2 & 0\frac{3}{4} \end{array}$	236 191 138 132 62 97 741 524 590 234 733 1248 2316 8168	8. d. 0 11 0 6 0 45 0 25 0 11 1 0 0 6 1 1 1 0 0 6 1 1 1 1 0 0 6 1 1 1 1	99 	s. d. 0 6½ 1 2¾ 0 2½ 0 1¼ 	186 186 186 187 377 318 377 266 544 436 544 499 566 544 499 566 569 820

DUNSTON CORN MILL SUPPLIES, EXPENSES, PROFITS, AND STOCKS.

From its Commencement.

IN YEARS.

YEAR ENDING				N. 4	Vet	ioi.		Expi	ENSES.		F			ON CTION	۲.	NET	Loss	3.	ø
	Net Sup- plies.	Production	Sun- dry.	Depre- ciation.	In- terest	Total.	Per	ce.	nt	Per	£.	Amount	Ra	te £.	Stocks.				
	£	£	£	£	£	£	£	s.	d.	g.	ð.	£	s.	d.	£				
Dec., 1891*.	178683	185104	8994	3631	3033	15658	8	9	21	1	81	543	0	08	72252				
,, 1892.	343264	346804	16239	6255	4912	27406	7	18	01/2	1	$6\frac{7}{8}$	17838	1	08	46831				
	521947	531908	25233	9886	7945	43064	8	1	11	1	78	18381	0	83					

^{*} Thirty-six weeks.

LONGTON CROCKERY DEPOT TRADE.

From its Commencement.

DATE.	SUPPLIES.			Tot Expe		NET P	ROFIT.	NET L	Stocks	
	Selves.	Scot'ish	Total.	Amount	Rate.	Amount	Rate.	Amount	Rate.	Stocke
	£	£	£	£	s. d.	£	s. d.	£	8. d.	£
Dec., 1886*	3968		3968	.872	1 101			87	0 21	540
,, 1887		304	12229	876	1 5½ 1 3¾	179	0 3½ 0 5¾ 0 6¾			596
,, 1888	14473	1072	15545	1000	1 33	353	0 5			1116
,, 1889†	17466	1183	18649	1174	1 3	533	0 63			1929
, 1890	21792	981	22773	1644	1 5½	548	0 5g			3053
,, 1831	27238	26	27234	1819	1 4	498	0 41			2884
,, 1892	29627		29627	2014	1 41	681	$6 5\frac{7}{2}$			2868
	126489	3566	130055 Les	8899 s Loss	1 43	2777 37	::	87	•••	
		Lea	ves Net	Profit		2740	0 5			

BATLEY WOOLLEN MILL TRADE.

From its Commencement.

IN YEARS.

	ies.]	EXPE	NSES	s .	P		ATE DUC'	oN TION		PR	ET OFI		NET	L	oss.	
DATE.	Net Supplies	Production	Sundry.	Depre- ciation.	Interest.	Total.		Pe cen		Per £.		Amount.	Ra	te.	Amount.	R	ate.	Stocks.
Dec., 1887 ,, 1888 ,, 1889* ,, 1890 ,, 1891 ,, 1892	£ 2478 11590 17189 13069 17018 16155	£ 8495 13836 12332 12955 17178 15870	£ 3720 6063 5705 5485 6267 5799	£ 131 297 333 363 396 422	518 534 396 407	4015 6873 6572 6244 7070	49 53 48 41	3	d. 31878 1019 113834 1458	9 1 10	d. 1878003478 2378	£ 622 325	0		483 1629 3918 766	3 2 4 1		£ 8061 11876 7308 7326 7740 7557
	77499	80666	39039	1942	2404	Les	88 J	Pro		9	•••	947			6796 947 5849			

^{*}Fifty-three weeks.

LEEDS AND BATLEY READY-MADES.

From its Commencement.

	. ies		NET PR	OFIT.	NET	ks.				
DATE.	Net Supplies.	Sundry.	Depre- ciation.	Inter'st.	Total.	Amount	Rate.	Amount	Rate.	Stocks.
Dec., 1888* , 1889† , 1890 , 1891 , 1892	£ 318 4132 6202 12929 14476	£ 392 2833 3189 5933 7925	£ 13 58 78 135 148	£ 8 49 71 121 131	£ 413 2940 8338 6189 8204	£	s. d. 1 03 0 102	£ 182 812 131	s. d. 11 5½ 3 11½ 0 5	£ 320 495 1816 1498 2274
	38057	20272 Leave	Less S Net Pr	s Loss	21084	1327 1125 202	··· ··· 0 1¼	1125	••	

^{*} One quarter. | Fifty-three weeks.

DISTRIBUTIVE EXPENSES AND RATE PER CENT ON

	TOT	ALS.	MANCHESTE.			
			GROC	ERY.		
SALES =	£8,58	0,509.	£4,40	0,999.		
Expenses =	Amount.	Rate ¥ £100.	Amount.	Rate ¥		
	£	d.	£	d.		
Wages	68662-07	192.05	21197-67	115-60		
Anditors' Fees	285.01	0.80	146.89	115.60		
, Deputation Fees	11.74	0.03	6.05	0.03		
Fares	115.00	0.32	59.07	0.32		
Deputation Fares	19.84	0.06	10.20	0.06		
ees—General and Branch Committees	867.92	2.43	839.32	1.85		
" Sub-Committees	461.94	1.29	107.63	0.59		
" Propaganda Committee	13.25	0.04	6.82	0.04		
" Finance Committee	78.26	0.22	40.21	0.22		
" Stocktakers	50.29	0·14 0·03	5.62	0.03		
" Scrutineers	9·01 90 00	0.03	4.65 25.00	0.03 0.14		
Scrutineers Secretaries Deputations	753.24	2.11	352.41	1.92		
lileages—General and Branch Committees	206.86	0.58	67:30	0.87		
" Sub-Committees	184.90	0.38	16.03	0.09		
" Propaganda Committee	4.03	0.01	2.08	0 01		
Finance Committee	33.27	0.09	17.10	0.09		
" Stocktakers	12.01	0.03	0.80	0.01		
"," Deputationsares and Contracts—General and Branch	69.73	0.50	18.29	0.10		
ares and Contracts—General and Branch	567.18	1:59	243.67	1.00		
Committees	567*18 245*87	0.69	243.67 46.35	1.38 0.25		
" Sub-Committees	8.63	0.05	4.31	0.03		
" Stocktakers	15.42	0.04	0.99	0 01		
" Scrutineers	7.24	0.02	3.73	0.02		
" Deputations	923.55	2.58	416.15	2.27		
rice Lists: Printing	1465.46	4.10	660.13	3.60		
,, Postage	322.72	0.90	153.25	0.84		
alance Sheets: Printing	342.99	0.96	170.60	0.93		
rinting and Stationery	5215.98	14·59 0·80	2059.83	11.23		
eriodicals	105·90 6207·44	17.36	48·40 1196·46	0.26 6.52		
elegrams	447.17	1.25	308.80	1.68		
tamps	3789.10	10.60	1825.72	9.96		
etty Cash	875.72	1.05	191-23	1.04		
dvertisementsents, Rates, and Taxes	493.97	1.38	261.27	1.43		
ents, Rates, and Taxes	3755-41	10.50	1412.64	7.70		
oals, Gas, and Water	2968.77	8.30	1096.95	5.98		
il, Waste, and Tallowxpenses: Quarterly and Special Meetings	169·77 565·88	0·48 1·58	90.73 382.45	0·49 2·09		
apenses: Quarterly and Special Meetings	144.44	0.40	182.85	0.72		
egal sepalis, Renewals, &c. elephones onference and Exhibition Expenses	4339.82	12.14	1959.38	10.68		
elephones	246.25	0.69	112.96	0.62		
onference and Exhibition Expenses	48.94	0.12	19.46	0.10		
ropaganda Expenses pening Expenses—Birmingham Saleroom mployés' Picuic	15.39	0.04	1.83	0.01		
pening Expenses—Birmingham Saleroom	25.45	0.07	25.45	0.14		
imployes' Picuic	97.46	0.27	20.82	0.11		
Annual"	970.68 3962.04	2·72 11·08	498*20 1887*50	2 72		
oning-rooms nsnrance—Fire and Guarantee	3962*04 2149*84	6:01	212.55	10·29 1·16		
Depreciation: Land	1776.93	4.97	535.89	2.92		
, Buildings	8271.72	23.14	1843 53	10.05		
" Fixtures	4216-49	11.79	1117-97	6.10		
nterest	39604.64	110 78	13775.38	75.12		
-						
	165737.58	463.57	55139.60	800.69		

SALES FOR THE YEAR ENDING DECEMBER 24TH, 1892.

MANCHESTER.

DRAP	ERY.	WO LLE READY		BOOT AN	D SHOE.	FURNI	SHING.
£370	, 4 95.	£40,	650.	£233	,097.	£142	,986.
Amount.	Rate ≇ £100.	Amount.	Rate ** £100.	Amount.	Rate ₽ £100.	Amount.	Rate ≇ £100.
£	d.	£	d.	£	d.	£	d.
8330-90	539.66	1076-65	625-64	3540.00	364.48	8044.55	511.02
12.81	0.80	1:36	0.80	7.83	0.81	4.41	0.74
0.50	0.03	0.05	0.03	0.32	0.03	0.18	0.03
4.99	0.32	0.54	0.32	3.13	0.32	1.76	0.30
0.86	0.06	0.08	0.03	0.53	0.05	0.30	0.05
28.69	1.86	3.14	1.85	18.10	1.86	10.18	1.71
51.39	3.33	5.77	3.41	32.37	3.33	17:87	3.00
0.57	0.04	0.06	0.04	0.35	0.04	0.19	0.03
3.39	0.22	0.36	0.22	2.14	0.22	1.20	0.20
10.50	0.68	1.50	0.89	1.85	0.19	1.50	0.25
0.38	0.02	0.04	0.02	0.25	0.03	0.14	0.02
7·42 55·77	0·48 3·61	0·45 5·27	0·27 3·11	4·18 30·67	0·43 3·16	2·95 19·53	0.50 3.28
5.65	0.37	0 63	3·11 0·37	3.57	0.37	2.05	0.34
17:51	1.13	1.89	1.11	10.99	1.13	6:18	1.04
0.17	0.01	0.01	0.01	0.10	0.01	0 05	0.01
1.44	0.03	0.16	0.09	0.91	0.09	0.21	0.03
4.01	0.26	0 10	0.13	0.65	0.07	0.30	0.05
6.07	0.39	0.69	0.41	4.07	0.42	2.43	0.41
21.77	1.41	2.36	1.39	13.86	1.43	7.70	1.29
14.19	0.92	1.94	1.15	11.20	1.15	5.88	0.99
0.37	0.02	0.05	0.03	0·26 0·94	0.03	0.16	0.03
0·72 0·31	0·05 0·02	0.29	$\begin{array}{c} 0.17 \\ 0.02 \end{array}$	0.31	0·10 0·02	0·33 0·11	0 06
52.04	3·37	0.03 4.49	2.65	26.66	2.74	15.62	2.62
16.23	1.05	5.20	3·25	48.54	5.00	95.51	16.03
2.29	0.15	3 30	0 20	7.32	0.75	19.38	3.25
14.95	0.93	1.58	0.93	9.14	0.91	5.12	0.86
491.69	31.85	54.00	31.88	309.47	31.86	174.75	29.33
6.37	0.41	0.41	0.24	1.43	0.15	1.46	0 25
1054.55	68.31	449.67	265.49	165.63	17.05	135.32	22.71
6.22	0.40	6.97	4.12	2.56	0.26	5.12	0.86
151.77	9.83	16 92	9.99	96.49	9.93	54.65	9.17
20.75	1.34	14.55	8.59	14.88	1.53	12.87	2.16
19.03	1.23	5.09	3.01	12.15	1.25	6 80	1.14
191.04	12.38	19 06	11.25	122.04	12.57	177.10	29.79
154.01	9.98	35.99	21.25	123.88 4.85	12·75 0·50	128·29 2·71	21.58 0.45
7·69 82·15	0.20 2.08	9.84	0.50 2.21	21.61	2.22	11.91	2.00
0.64	0.04	3 74 0 07	0.04	0.85	0.04	0.21	0.04
460.57	29.81	29:40	17:36	250.15	25.76	267.80	44.95
10.15	0.66	1.28	0.93	2:35	0.54	9.33	1.57
0.74	0.05	0.08	0 05	0.37	0.04	0.25	0.04
0.16	0.01	0.01	0.01	0.08	0 01	0.05	0.01
16.72	1.08	1.50	0.89	7.55	0.78	6.52	1.09
42.47	2.75	4.62	2.73	26·37 278·30	2·72 28·65	14.92 160.64	26.96
455.60 279.56	29.51	49·19 43·31	29·04 25 57	164.00	16 89	78.63	13.50
277.72	18·11 17·99	43°31 37°92	25 57	215.38	22.18	280:17	47:02
1027.92	66.59	140.28	82.82	664.22	68.39	891.15	149.58
791.42	51.27	62.47	36.88	294-67	30.34	215.48	36.17
4702.45	304.62	856-87	505 61	2762.89	284.47	1657:30	278-1
18866:15	1222-11	2949-15	1741-19	9321-81	959:78	7559-55	1268-8

DISTRIBUTIVE EXPENSES AND RATE PER CENT ON

		MI	ewc	ASI	TE.	
	GROC	ERY.	DRAP	ERY.	BOOTS &	SHOES
SALES=	£1,56	4,121.	£241,	002.	£125	,484.
${\bf Expenses} =$	Amount.	Rate #	Amount.	Rate ₹ £100.	Amount.	Rate ¥
	£	d.	£	d.	£	d.
Vages	8612-66	132.15	3481:30	346.68	1572.48	300 75
Auditors' Fees	51.92	0.80	7.97	0.79	4.19	0.80
" Deputation Fees	2.15	0.03	0.83	0.03	0.18	0.03
" Fares	21.01	0.32	3.22	0.32	1.69	0.32
" Deputation Fares	3.65	0.06	0.55	0.02	0.29	0.06
Fees-General and Branch Committees	202.13	3 10	47.34	4.71	19.36	3.70
" Sub-Committees	62.18	0.95	23.01	2 29	14.40	2.75
,, Propaganda Committee	2.45	0.04	0.37	0.04	0.19	0.04
" Finance Committee	14.31	0.22	2.18	0.22	1.15	0.22
" Stocktakers	3.35	0.05	8.75	6.37	1.50	0.20
" Scrutineers	1.64	0.03	0.25	0.03	0.13	0.02
" Sceretaries	13.18	0.20	7.62	0.76	0.66	0.18
" Deputations	58.25	0.89	8.08	0.80	3.73	0.71
lileages-Gen. & Branch Committees		0.65	9.15	0.91	3.45	0.66
" Sub-Committees		0.16	2.98	0.30	1.62	0.3
" Propaganda Committee	0.74	0.01	0.15	0.01	0.06	0.01
,, Finance Committee	6.08	0.09	0.93	0.09	0.49	0.08
,, Stocktakers	0.46	0.01	1.05	0.10	0.02	0.0
Deputations	4.02	0.06	0.98	0.10	0.20	0.04
Fares and Contracts - General and				- 20	0.00	
Branch Committees	104.96	1.61	16.85	1.68	8.75	1.67
" Sub-Committees	25.12	0.89	7.93	0.79	4.41	0.8
Finance Committee	1.57	0.02	0.53	0.02	0.14	0.08
" Stocktakers	1.62	0.03	0.22	0.02	0.32	0.06
" Scrutineers	1.31	0.02	0.20	0.02	0.10	0.05
Deputations	38.05	0.58	5.24	0.55	2.92	0.5
Price Lists: Printing	133.95	2.06			3.43	0.66
Price Lists: Printing	31. 9	0.48			0.75	0.1
Balance Sheets: Printing	40.96	0.63	6-29	0.63	3.28	0.68
Printing and Stationery	354.60	5.44	125.52	12.50	96.47	18.4
Periodicals	11.26	0.17	1.11	0.11	1.05	0.5
Cravelling	464.32	7 13	410.58	40.89	225.15	43.0
relegrams	80.39	1.23	4.00	0.40	4.00	0.7
stamps	315.13	4 84	158.39	15.77	51 25	9.80
Petty Cash	49.27	0.76	5.48	0.55	3.33	0.6
Advertisements	90.05	1.38	13.81	1.38	7.25	1.39
Rents, Rates, and Taxes	254.92	3.91	178.11	17:24	141.25	27.0
Coals, Gas, and Water	457.78	7.02	118.44	11.80	41.45	7.99
Oil, Waste, and Tallow	22.10	0.34	3.20	0.35	1.79	0.3
Expenses : Quarterly& Special Meetings	40.39	0 62	6.12	0.61	3.27	0.68
egal	2.65	0.04	0.48	0.04	0.50	0.04
Repairs, Renewals, &c	360.15	5.53	102.95	10.25	38.87	7.48
Celephones	52:39	0.80	5.15	0.52	2.89	0.55
Conference and Exhibition Expenses	0.91	0.03	0.14	0.01	0.08	0 02
ropaganda Expenses						
pen'g Expenses-Birm'gh'm Saleroom						
Employés' Picnic	7.48	0.11	7.44	0.74	1.88	0.36
Annual "	177.26	2.72	27.40	2.73	14.13	2.70
Dining-rooms	478.77	7.85	128.36	12.78	67.63	12.98
nsurance - Fire and Guarantee	134.29	2.06	143.87	14.33	82.07	15.70
Ocpreciation: Land	118.33	1.74	61.27	6.10	48.63	9.30
" Buildings	723.87	11.10	422 93	42 12	338.88	64.81
, Fixtures	314.6	4.83	171.60	17.09	134.86	25.79
nterest	4989.35	76.56	2071.28	206.27	1107.48	211.8
	18986-97	291.33	7796:32	776:39	4063.78	777-28

SALES FOR THE YEAR ENDING DECEMBER 24th, 1892.

NEWC	STLE.			I	017	DOI	<u>1</u>		
FURNIS	HING.	GROC	ERY.	DRAP	ERY.	BOOTS &	SHOES.	FURNI	SHING.
£81,9	966.	£1,206	3,448.	£85,	801.	£46.	444.	£41.	016.
Amount.	Rate ₽ £100.	Amount.	Rate &	Amount.	Rate ₩ £100.	Amount.	Rate P	Amount.	Rate per £100.
£ 2070·70	д. 606·81	£ 9956·38	d. 198:06	£ 2819·10	d. 788:55	£ 1275·03	d. 658:87	£ 1684·65	d. 985·75
2.71	0.79	40.14	0.80	2.85	0.80	1:55	0.80	1:38	0.81
0.11	0.03	1.65	0.03	0.11	0.03	0.06	0.03	0.05	0.03
1.09	0.82	16.19	0.32	1.14	0.32	0.62	0.32	0.55	0·82 0·05
0.19	0.06	2.79	0.06	0.50	0.09	0.11	0.06	0.09	0.05
12.68	3.71	142.56	2.84	21.73	6.08	11.54	5 96	11.15	6.52
8.22	2.41	75.90	1.21	26.74	7.48	20.23	10.45	16.23	9.50
0.13	0.04	1.86	0.04	0.13	0.04	0.07	0.04	0.06	0 04
0.74	0.22	11 01	0.22	0.77	0.22	0.42	0.21	0.38	0.22
4.12	1.21	8.15	0.16	4 40	1.23	1.85	0.96	2 20	1·29 0·02
0.08 0.24	0.02 0.16	1.28 18.50	0.03 0.37	0.09	0.02	0·04 0·99	0·02 0·51	0.04 0.87	0.02
2.91	0.85	144.41	2.87	7·64 33·92	2·14 9·49	18.52	9.57	19 77	1.57
2.20	.0.64	46.58	0 93	11.72	3.28	6.12	3.16	6.03	3.53
1.03	0.50	40.07	0.80	11.76	3.29	7.67	8.96	6.72	8.93
0.04	0.01	0.57	0.01	0 04	0.01	0.03	0 02	0 02	0.01
0.31	0.09	4.68	0.09	0.33	0.09	0.18	0.09	0.12	0.09
0.45	0.13	1.51	0.03	1.07	0.30	0.79	0.41	0.68	0.40
0.22	0 06	20 78	0.41	4 58	1.27	4.00	2.07	3.45	2.02
5.66	1.66	116.83	2.32	11.71	3.27	6.70	3.46	6.36	9.72
2.69	0.79	86.93	1.73	18 52	5.18	10.00	5.17	10.68	6.25
0.09	0.03	1·23 9·12	0·03 0·18	0 10 0 27	0.03	0.06	0.03	0.06	0.04 0.06
0.07	0.02	1 03	0.02	0.07	0.08 0.03	0·17 0·04	0.03	0.03	0.02
1.90	0.56	254.88	5.07	45.93	12.84	28.42	14.69	30.95	18.11
14.75	4.32	425.27	8.46	10 00		22.35	11.55	39.80	23.28
2.35	0.69	98.72	1 96		• • •	2:40	1.24	5.17	3.03
2.12	0.62	78-29	1.56	5.56	1.56	3.02	1.56	2.68	1.57
109.60	32.09	907.48	18.05	289 55	80.99	124.68	64.43	118-29	69.22
1.48	0.43	26.93	0.54	2 90 503 56	0.81 140.85	0.90	0.47	2.20	1.29
80.41	23.54	924.51	18.39	503 56	140.85	283.43	146 46	313.85	183.64
2.00	0.59	25.10	0.50	0 97	0.27	0.19	0 10	0.82	0.48
131.61	38 54	713.36	14.19	151.94	42.50	53 99	27.90	67.88	89.72
3·61 4 70	1.06 1.38	43.40	0.86 1.26	10.49	2.93	8.32	1.71	2·54 3·33	1.49
154.38	45.20	63·19 835·15	16.61	4·86 130·74	1·36 36·57	2·44 63·24	1·26 32·68	80.74	1·95 47·24
28.90	8.46	530.73	10.26	113.42	31.73	86.89	44 90	57.04	33.87
1.23	0.36	24.66	0.42	4.44	1.24	8.20	1.65	2.03	1.19
2.05	0.60	49.93	0.99	5.58	1.56	8.40	1.76	3.28	1.92
0.15	0.04	4.98	0.10	0.99	0.28	0.92	0.48	0.50	0.29
20 06	5.87	611.38	12.16	125.05	34 98	75.02	38.76	39.04	22.84
1.95	0.57	32.53	0.65	6.93	1.94	8.45	1.78	4.62	2.70
0.04	0 01	19.78	0.39	0.99	0.28	0.66	0.84	0.44	0.26
0 ::	• • • • • • • • • • • • • • • • • • • •	11.52	0.23	0.88	0.24	0.45	0 23	0.38	0.22
0.98	0.27	16.61	0.33	5.10	1.43	1.31	0.63	3.60	2.11
9.29	2.72	136.46	2.71	9.72	2.72	5.19	2.68	4.65	2.72
43.39	12.70	275.24	5.48	66.12	18.49	37:34	19.30	33.96	15.87
53.35	15.62	475.05	9.45	272.76	76.30	112.91	58.85	97.49	57.04
50.18	14.69	92.12	1.83	34.18	9.56	10.99	5.68	19.15	11.21
352·19 144·36	108.12	1054.17	20.97	420.84	117 71	140.70	72.71	251.04	146.89
852.94	42·27 249·75	583·13 4725 34	11.60 94.00	234·71 1182·64	65·65 830·80	68·58 472·43	35·44 244·13	82·60 448·79	48·33 262·60
4187:28	1226.03	23790.06	473-25	6609.79	1848-87	2978-61	1589.20	3488.56	2041.28

The Co-operative Union Limited.

BUILDINGS, 69, CORPORATION STREET. MANCHESTER.

WHAT IS THE CO-OPERATIVE UNION?

TT is an institution charged with the duty of keeping alive and diffusing a knowledge of the principles which form the life of the Co-operative movement, and giving to its active members, by advice and instruction—literary, legal, or commercial—the help they may require, that they may be better able to discharge the important work they have to do.

WHAT HAS IT DONE?

The greater part of the legal advantages enjoyed by Co-operators originated in the action of the Central Board of the Union, and the Central Committee which it succeeded. They may be summarised as follows:-

(1) The right to deal with the public instead of their own members only.

(2) The incorporation of the Societies, by which they have acquired the right of holding in their own name lands or buildings and property generally, and of suing and being sued in their own names, instead of being driven to employ trustees.

(3) The power to hold £200 instead of £100 by individual members of our Societies. (4) The limitation of the liability of members for the debts of the Society to

the sum unpaid upon the shares standing to their credit.

(5) The exemption of Societies from charge to income tax on the profits of their business, under the condition that the number of their shares shall not be limited.

(6) The authorising one Registered Society to hold shares in its own corporate name to any amount in the capital of another Registered Society.

(7) The extension of the power of members of Societies to bequeath shares by nomination in a book, without the formality of a will or the necessity of appointing executors, first from £30 to £50, and now to £100, by the Provident Nominations and Small Intestacies Act, 1883, which also makes this power apply to loans and deposits as well as to shares.

(8) The Industrial and Provident Societies Act, 1871, which enables Societies

to hold and deal with land freely.

(9) The Industrial and Provident Societies Act 1876, which consolidated into one Act the laws relating to these Societies, and, among many smaller advantages too numerous to be mentioned in detail, gave them the right of carrying on banking business whenever they offer to the depositors the security of transferable share capital.

(10) The Industrial and Provident Societies Act, 1893.

The Union consists of Industrial and Provident Societies, Joint-Stock Companies, and other bodies corporate.

No Society is admitted into Union unless its management is of a representative character, nor unless it agree-

(1) To accept the statement of principles in the rules of the Union as the rules by which it shall be guided in all its own business transactions.

(2) To contribute to the fund called the Congress Fund the annual payment

following:-

- (a) If the number of members of any such Society, or of the employés of any such industrial partnership, is less than 500, then the sum of 2d. for each member.
- (b) If the number of such members or employés exceed 500, then, at least, the sum of 1,000d.

In estimating the number of members of a Society comprising other Societies, each such Society is considered to be one member.

The subscription is considered due, 1d. in the first and 1d. in the third quarter of each year, but may be wholly paid in the first quarter.

The financial year commences on April 1st in each year, and ends on March

31st following.

N.B.—Secretaries forwarding Cheques on account of the Union are requested to make them payable to the Co-operative Union Limited; Money Orders to A. Whitehead, Cashier.

SUMMARY OF THE LAW RELATING TO SOCIETIES UNDER THE

INDUSTRIAL AND PROVIDENT SOCIETIES ACT, 1876,

THE CUSTOMS AND INLAND REVENUE ACT, 1880, AND THE PROVIDENT NOMINATIONS AND SMALL INTESTACIES ACT, 1883.

I. The Formation of Societies-

1. Application must be made to the Registrar of Friendly Societies, in London, Edinburgh, or Dublin, according to the case, on a form supplied by the office, signed by seven persons and the secretary, accompanied by two copies of the rules, signed by the same persons.

2. These rules must provide for twenty matters stated on the form of appli-

cation.

3. No fees charged on the registration of a society.

N.B.—Model rules on these twenty matters can be obtained from the Registrar's office; and the Co-operative Union Limited, 14, City Buildings, Corporation Street, Manchester, publishes, at the cost of 1½d. a copy, general rules, approved of by the Chief Registrar, providing also for many other matters on which rules are useful; and capable of being adopted, either with or without alterations, by a few special rules, with a great saving in the cost of printing.

The General Secretary of the Union will prepare such special rules, without

charge, on receiving a statement of the rules desired.

II. Rights of a Registered Society—

1. It becomes a body corporate, which can by its corporate name sue and be sued, and hold and deal with property of any kind, including shares in other

societies or companies, and land to any amount.

2. Its rules are binding upon its members, though they may have signed no assent to them; but may be altered by amendments duly made as the rules provide, and registered, for which a fee of 10s. is charged. The application for registration must be made on a form supplied by the Registrar's office.

3. It can sue its own members, and can make contracts, either under its seal or by a writing signed by any person authorised to sign, or by word of mouth of any person authorised to speak for it, which will be binding wherever a contract

similarly made by an individual would bind him.

4. It may make all or any of its shares either transferable or withdrawable, and may carry on any trade, including the buying and selling of land, and banking under certain conditions, and may apply the profits of the business to any lawful purpose; and, if authorised by its rules, may receive money on loan, either from its members or others, to any amount so authorised.

5. If it has any withdrawable share capital it may not carry on banking, but may take deposits, within any limits fixed by its rules, in sums not exceeding 10s. in any one payment, or £20 for any one depositor, payable at not less than

two clear days' notice.

6. It may make loans to its members on real or personal security; and may invest on the security of other societies or companies, or in any except those where liability is unlimited.

7. If the number of its shares is not limited either by its rules or its practice, it is not chargeable with income tax on the profits of its business.

8. It can, in the way provided by the Act, amalgamate with or take over

the business of any other society, or convert itself into a company.

9. It can determine the way in which disputes between the society and its

officers or members shall be settled.

10. It can dissolve itself, either by an instrument of dissolution signed by three-fourths of its members, or by a resolution passed by a three-fourths vote at a special general meeting, of which there are two forms—(A) purely voluntary, when the resolution requires confirmation at a second meeting; (B) on account of debts, when one meeting is sufficient. In such a winding up hostile proceedings to seize the property can be stayed.

III. Rights of the Members (see also IV., 4, 5, 6)-

1. They cannot be sued individually for the debts of the society, nor compelled to pay more towards them than the sum remaining unpaid on any shares which they have either expressly agreed to take or treated as their property, or which the rules authorise to be so treated.

2. If they transfer or withdraw their shares, they cannot be made liable for any debts contracted subsequently, nor for those subsisting at the time of the transfer or withdrawal, unless the other assets are insufficient to pay them.

3. Persons not under the age of 16 years may become members, and legally

do any acts which they could do if of full age, except holding any office

4. Au individual or company may hold any number of shares allowed by the rules, not exceeding the nominal value of £200, and any amount so allowed as a

loan. A society may hold any number of shares.

5. A member who holds at his death not more than £100 in the society as shares, loans, or deposits, may, by a writing recorded by it, nominate, or vary or revoke the nomination of any persons to take this investment at his death; and if he dies intestate, without having made any subsisting nomination, the committee of management of the society are charged with the administration of the fund; subject in either case to a notice to be given to the Commissioners of Inland Revenue whenever the sum so dealt with exceeds £80.

6. The members may obtain an inquiry into the position of the society by

application to the Registrar.

IV. Duties of a Registered Society-

1. It must have a registered office, and keep its name painted or engraved outside, and give due notice of any change to the Registrar.

2. It must have a seal on which its name is engraved.

3. It must have its accounts audited at least once a year, and keep a copy of its last balance sheet and the auditors' report constantly hung up in its registered office.

4. It must make to the Registrar, before the 31st of March in every year, a return of its business during the year ending the 31st December previous, and supply a copy of its last returns gratis to every member and person interested in its funds on application.

5. It must allow any member or person interested in its funds to inspect his

own account and the book containing the names of the members.

6. It must supply a copy of its rules to every person on demand, at a price

not exceeding one shilling.

7. If it carries on banking, it must make out in February and August in every year, and keep hung up in its registered office, a return, in a form prescribed by the Act; and it has also to make a return every February to the Stamp-office under the Banking Act.

The non-observance by a society of these duties exposes it and its officers to penalties varying from £1 to £50, which are in some cases cumulative for every week during which the neglect lasts.

THE

"Co-operative Mews"

AND

JOURNAL OF ASSOCIATED INDUSTRY.

The Official Organ of Industrial and Provident Co-operative Societies.

THE NEWS is the property of a Federation of Co-operative Societies located in all parts of Great Britain. It is an exponent of opinion, thoroughly impartial and comprehensive, upon all subjects connected with Association, particularly in its application to the Distribution and Production of Wealth. It is a free platform for the discussion of topics bearing upon the social well-being of the people, and affords an opportunity for the expression of every view of Co-operation which commends itself as thoughtful and sincere.

The importance of maintaining a vehicle for the conveyance of co-operative intelligence cannot be over-rated.

Each Society is invited to become a Shareholder, and every Individual Co-operator is solicited to Subscribe.

The News may be had by application to any Bookseller, through the Local Stores, or from the Offices of the Society,

 $88\ {\rm and}\ 90,\ {\rm CORPORATION}\ {\rm STREET},\ {\rm MANCHESTER}$;

119, PAISLEY ROAD, GLASGOW;

AND

35, RUSSELL STREET, COVENT GARDEN, LONDON, W.C.

N.B.—CLOTH CASES for the *News* will be Supplied Gratis to Societies who send copies to public and semi-public reading-rooms.

PRICE ONE PENNY WEEKLY.

Sold at many of the Stores at One Halfpenny.

THE

Co-operative Insurance Company

LIMITED.

ESTABLISHED 1867.

HEAD OFFICES:

CITY BUILDINGS, CORPORATION ST., MANCHESTER.

PRINCIPAL AGENCIES:

SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY LIMITED,

119, Paisley Road, Glasgow;

And each Branch of the Co-operative Wholesale Society Limited.

DIRECTORS:

CHAIRMAN-MR. WILLIAM BARNETT, Macclesfield.

MR. WM. BAMFORTH, Manchester. | MR. ROBERT HOLT, Rochdale. MR. B. HEPWORTH, Heckmondwike. MR. A. MILLER, Glasgow.

MR. W. A. HILTON, Bolton.

MR. T. RAWLINSON, Burnley.

MR. T. WOOD, Manchester.

AUDITORS:

MR. A. HACKNEY, Bolton, and MR. J. E. LORD, Rochdale.

MANAGER:

JAMES ODGERS.

BANKERS:

THE CO-OPERATIVE WHOLESALE SOCIETY LIMITED.

THE CO-OPERATIVE INSURANCE COMPANY LIMITED was registered on August 29th, 1867, to save the difference between the premiums usually charged for insurance and the actual losses and central and local expenses incurred.

This difference consists of two parts-

- (A) Any excess of Agents' Commission over fair payment for local work done; such commissions being fixed percentages, irrespective of the ratios of losses and expenses of management.
- (B) The balances of premiums left after paying claims, expenses, and commissions; such balances increasing the funds when the claims do not exceed the average, and reducing them when the claims are exceptionally heavy.

Every member, whether a shareholder or not, guarantees £5, no part of which is to be paid up except in the remote contingency of the Company being wound up. In the latter event no loss can be suffered under these guarantees, unless the fully subscribed capital of £50,000 should prove insufficient to meet the liabilities.

The balances of premiums referred to in clause B above are required by the Articles of Association to be accumulated to form three separate Insurance Funds, for the Fire, Fidelity, and Life Departments respectively, "neither of which shall be available for the payment of a dividend to shareholders as such," this growth of the funds being needed to provide for the growing liabilities of the Company under its policies.

The income from the investments of the Life Insurance Fund is credited to that fund, the profits of which are divisible exclusively with Life policy-holders. The balance of the income from all other investments after paying an annual dividend of 6 per cent upon one-fifth of the shareholders' liability, *i.e.*, upon the four shillings per share called up, and 3 per cent upon the sum (if any) paid up in advance of calls, is carried to the Reserve Fund to increase the general security.

The following statement shows the progress of the Company to the end of 1892:—

	Society berg.		Fire Insu	rance.		elity antee.	Insur		Commis-	Funds
YEAR.	No. of Socie Members.	Subscribed Capital, 4s. per Share Called up.	Premlums after Deducting Re- Insurances.	Losses.	Pre- miums.	Losses.	Pre- miums.	Claims.	sion Allowed to Society Agen's.	in excess of Paid-up Capital.
	Sev	en £	£	£	£	£	£	£	£	£
1868	mont	hs only-	included	with	next	year.			es r es	
1869	41	1,715	208	6	67	Nil.	Nil.	Nil.	of to	188
1870	41	1,715	157	1	123				Includes onus for rst Seven Years.	378
1871	42	4,216	173	Nil.	162	• • •	• • •		* Includes Bonus for first Seven Years.	597
1872	46	6,468	256	62	253	• • •			* # E	961
1873	51	9,494	369	28	392	3			Nil.	1,488
1874	64	10,706	571	29	449	200		• •	2	2,121
1875	71	11,314	1,075	1,861	559	Nil.		• •	*100	1,508
1876	89	11,877	1,725	39	457	• •		• •	18	3,444
1877	96	12,365	3,896	1,613	525	270	• •	• •	34	5,250
1878	109	13,208	6,343	6,933	399	Nil.			51	3,545
1879	128	15,996	5,114	3,888	568	23	• • •	• •	142	4,094
1880	144	17,698	3,405	3,403	543	50		• •	229	3,425
1881	169	19,377	3,062	2,738	541	402	••		357	3,068
1882	180	20,170	2,834	1,741	537	692		• •	426	3,197
1883	194	22,985	3,111	2,275	551	278			509	3,403
1884	204	23,760	3,448	461	620	286			470	5,369
1885	236	26,475	4,425	2,463	777	1,132			552	5,665
1886	260	29,020	4,711	1,117	699	300	118		588	8,007
1887	268	30,540	5,590	1,387	803	794	613		663	10,655
1888	278	31,855	6,138	1,245	786	225	963		672	14,761
1889	287	33,775	6,702	3,400	894	726	1,069	125	722	17,158
1890	293	43,465	7,393	3,005	958	37	1,256	100	745	21,370
1891	305	50,000	8,086	2,634	1070	268		25	835	26,767
1892	317	50,000	9,199	5,261	1188	222	1,950	100	898	30,396

Individuals are no longer admitted members of the Company, and when existing members wish to dispose of their shares the preference as transferees is given to societies.

All Co-operative Societies in the United Kingdom that are not yet connected with the Company are invited to join it as members and agents. By doing so they will be entitled to take part, by representation, in the general meetings which elect the directors and control the administration; and will obtain the usual commission on insurances effected through their agency, including commission on insurances of their own corporate property.

FIRE DEPARTMENT BEGUN 1868.

CLAIMS PAID, £45,590.

INSURANCES against loss by Fire are effected on Co-operative Stores, Dwellinghouses, Schools, Public Buildings, Churches, Chapels, Farming Property, and most other classes of risk.

Losses by Lightning are paid, also losses by the Explosion of Coal Gas in buildings other than gasworks.

Societies are invited to transfer Insurances from other companies to the "Co-operative." Their members are also invited to have their Houses, Furniture, and other property insured by it.

FIDELITY DEPARTMENT BEGUN 1869.

CLAIMS PAID, £5,908.

Policies are issued insuring Co-operative Societies against loss by acts of Embezzlement or Theft committed by persons employed by them in situations of trust.

LIFE DEPARTMENT BEGUN 1886.

CLAIMS PAID, £350.

Low Rates.—Surplus divisible exclusively with Life policy-holders. Claims paid immediately after proof of death and title. All reasonable facilities given to prevent lapsing of policies. Liberal surrender values.

PREMIUMS FOR THE INSURANCE OF £100 at DEATH.

Age next Birthday.	Single Premium.	Yearly.	Half-yearly.	Quarterly.	Age next • Birthday.
20	£ s. d.	£ s. d. 1 15 8	£ s. d. 0 18 10	£ s. d.	20
30	43 17 1	2 5 10	1 4 0	0 12 8	30
40	51 13 3	3 1 8	1 12 1	0 16 8	40
50	60 17 5	4 7 6	2 5 4	1 3 4	50

PREMIUMS FOR THE INSURANCE OF £100 AT AGE 60 OR AT DEATH, IF THAT EVENT SHOULD OCCUR EARLIER.

Age next Birthday.	Single Premium.	Yearly.	Half-yearly.	Quarterly.	Age next Birthday.
20 30 40 50	£ s. d. 43 1 2 51 19 2 63 11 7 79 11 4	£ s. d, 2 5 2 3 3 0 4 17 11 9 14 11	£ s. d. 1 3 11 1 12 11 2 10 9 5 1 4	£ s. d. 0 12 11 0 17 5 1 6 6 2 12 3	20 30 40 50

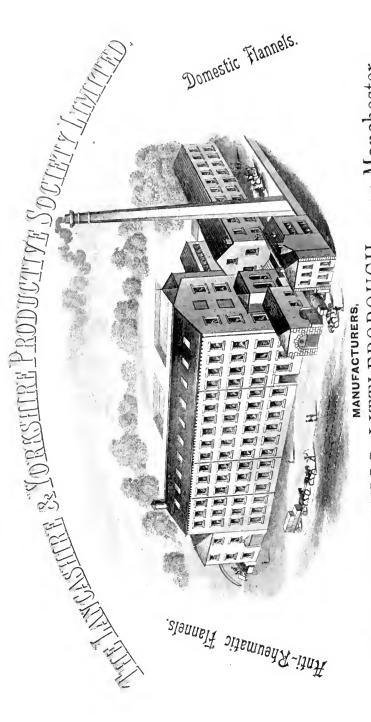
NEW SYSTEM OF DEFERRED INSURANCE ON CHILDREN'S LIVES WITHOUT MEDICAL EXAMINATION.

The full sum insured becomes payable at death if taking place after age twenty-one, or on the attainment of age fifty. The whole of the premiums paid, with compound interest thereon at 4 per cent per annum, will be returned in the event of death occurring under age twenty-one.

The policies carry the right to participation in the profits of the not medically examined section of the Life business of the Company.

The Rates of Premium for the various Insurances will be supplied on application. Policies Insuring £25, £50, and £75 are issued for proportionate parts of the premium for £100, subject to the limitation that no Life Policy is issued for a less premium than Five Shillings.

Forms of Application for Admission of Societies as Members, and for Appointment as Agents; also Proposal Forms for Insurance, may be obtained from the Office as above.



HARE HILL MILLS, LITTLEBOROUGH, near Manchester.

The Celebrated Aconomic Alannels.

We beg most respectfully to ask your kind and generous support of the above Society.

The various descriptions of FLANNELS now made are admitted by those who have fully tried them to be unsurpassed in MAKE, WEIGHT, QUALITY, and PRICE. It is earnestly requested that all Co-operative Societies press the sale of these Flannels amongst their members.

Economy is the order of the day, and we are fully justified in describing the Flannels made at the above mills as the

Celebrated Economic Flannels.

Whenever you are buying be sure and ask for them.

They can be had at any of the following Co-operative Establishments:

1, BALLOON STREET, MANCHESTER.

WATERLOO STREET, NEWCASTLE-ON-TYNE.

LEMAN STREET, WHITECHAPEL, LONDON.

SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY, PAISLEY ROAD, GLASGOW.

THE MILLS, HARE HILL ROAD, LITTLEBOROUGH.

THE LANCASHIRE AND YORKSHIRE PRODUCTIVE SOCIETY LIMITED.

STATEMENT SHOWING CONDITION AND PROGRESS OF THE SOCIETY SINCE ITS COMMENCEMENT.

SALES	Co-operative.	3	:	_	1581 167	2282	4338	2677	300	0696	13.20		473 930	_	_	_	_	_	_	<u> </u>	_	3806 143	_	0
	Profits.	4	:	::	1806	:	157	496	:	: +1#	ه		30	133	88	13	35	88	36	**	21	33	19	α
	Total.	લ	•	3	4432	4756	5525	1909	6051	2487	5995		5432	2499	5568	5637	5708	5799	0678	8380	8490	8587	8665	8745
CAPITAL.	Indivibul	भ		15	1234	1372	1461	1835	1723	1368	1269		1278	1294	1310	1396	1345	1385	1511	1529	1575	1611	1631	1659
LOAN (Friendly Societies.	94	:	25	200	96	1001	1297	1385	1295	1268		1277	1593	1309	1825	1341	1357	1373	1411	1429	1448	1465	1484
	Co-operative Societies.	4	:	:	0888	2423	2972	2044	2046	2818	2856		2876	2912	2948	2985	3053	3060	2406	5449	5486	5528	5569	5600
	Share Capital.	e47	6195	6195	6495	6495	0099	0099	0099	*2640	5640		5640	2610	2640	26.40	5640	2640	2640	5640	2640	2640	2640	0496
	Share Redem tion Fund.	झ	:	:	:	: :	: :	: :	:	:	:		:	:			: :	:	: :	: :		: :	: :	
	DATE,		Half-year ending July 11, 1874	ۍ	" July 9, "	ĵœ	Jan. 6, 1877	" July 7, "	" Jan. 5, 1878	June 29, 11	13 Months ending Nov. 16, "	In Lightnamon	Months ending Jan. 4, 1879	20	July 5.	Oet 4	Jan. 3, 1880.	April 8, 11	July 3.	Oct. 2	Jan. 1, 1881.	April 2.		3 Oct. 1

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* Share Capital reduced from £1 to 8s, per share.

r share. † Including bad debts of £553, and formation expenses of £269.

THE

SCOTTISH

CO-OPERATIVE WHOLESALE SOCIETY

LIMITED.

PLATES, ADVERTISEMENTS, STATISTICS, &c.,

PAGES 118 TO 170.

INTRODUCTION.

TO THE MEMBERS:

N placing the "Annual" for 1894 in your hands, we have no doubt that the interest it will excite will be not less than that evoked by previous issues. The contents are equally varied and interesting, and well worthy, we think, of a careful and thoughtful perusal. The subjects dealt with in the general part of the volume are of widespread importance, and we feel certain that the manner in which they are treated will do something in the way of solving some of the social problems which are being so generally debated at the present time.

Those portions of the volume which are specially reserved for matters affecting the Scottish Wholesale are compiled on the same lines as last year. The statistics have been brought up to date, and record continued progress in all departments of the Society. We do not think it necessary to say anything further by way of recommending the "Annual." We leave it to speak for itself, and that is, after all, really the truest and best recommendation.





T. C. M'Nab. I. MacDonald. Peter Glasse, Peter Glasse, John Pearson, Thus, Little, Daniel Thomson. Peter Chss John Stevenson. Andrew Miller, Sey, Win, Maywell, Proc.

DIRECTORS: SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY, LIMITED.



Twenty-five Years' Wholesale Distribution in Scotland.

Scottish Co-operative Wholesale Society Ltd.

1868, 13 weeks 1869, 52 1870, 50 1871, 52 1872, 52 1874, 52 1875, 52 1876, 51 1877, 52 1879, 52 1880, 52 1881, 54 1882, 52 1884, 52 1884, 52 1885, 52 1887, 53 1887, 53 1887, 53 1888, 52	APITAL. £1,795 5,175 12,543 18,009 30,931 50,433 48,982 56,751 67,219 72,568 83,174 93,077 110,179 135,713 169,429	\$\frac{\pmath{\subseteq}}{\pmath{\superstandarta}} \frac{\pmath{\superstandarta}}{\pmath{\superstandarta}} \frac{\pmath{\superstandarta}}{\pma	PROFITS. £48 1,304 2,419 4,131 5,435 7,446 7,553 8,233 8,836 10,925 11,969 14,989 21,685		EARS eeks ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	s. , 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880
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1877, 52 ,, 1878, 52 ,, 1879, 52 ,, 1880, 52 ,, 1881, 54 ,, 1882, 52 ,, 1883, 52 ,, 1884, 52 ,, 1885, 52 ,, 1886, 60 ,, 1887, 53 ,, 1888, 52 ,,	72,568 83,174 93,077 110,179 135,713	589,221 600,590 630,097 845,221	10,925 11,969 14,989 21,685	52 52 52	"	1877 1878 1879
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1883, 52 ,, 1884, 52 ,, 1885, 52 ,, 1886, 60 ,, 1887, 53 ,, 1888, 52 ,,	169,429		23,981	54	,,	1881
1884, 52 ,, 2 1885, 52 ,, 3 1886, 60 ,, 3 1887, 53 ,, 3 1888, 52 ,, 4	,	1,100,588	23,220	52	,,	1882
1885, 52 ,, 5 1886, 60 ,, 5 1887, 53 ,, 5 1888, 52 ,, 5	195,396	1,253,154	28,366	52	,,	1883
1886, 60 ,, 5 1887, 53 ,, 5 1888, 52 ,,	244,186	1,300,331	29,435	52	,,	1884
1887, 53 ,, 3 1888, 52 ,,	288,946	1,438,220	39,641	52	,,	1885
1888, 52 ,,	333,653	1,857,152	50,398	60	"	1886
	367,309	1,810,015	47,278	53	,,	1887
1889 52	409,668	1,963,853	53,538	52	,,	1888
1889, 52 ,,	480,622	2,273,782	61,756	52	,,	1889
1890, 52 ,,	575,322	2,475,601	76,545	52	,,	1890
1891, 52 ,,	671,108	2,828,036	89,090	52	,,	1891
1892, 53 ,,	778,494	3,104,768	. 96,027	53	,,	1892
1893, 26 ,,		1,538,449	48,970	26	•2	1893
TOTALS.	821,541				**	TORO

3

Commenced September, 1868.



SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY LIMITED.

Enrolled 20th April, 1868, under the provisions of the Industrial and Provident Societies Act, 20th August, 1867, 30 and 31 Vict., cap. 117, sec. 4.

Business Commenced 8th September, 1868.

REGISTERED OFFICE, GROCERY AND PROVISION WAREHOUSE:

DRAPERY WAREHOUSE:

DUNDAS AND ST. JAMES' STREETS, GLASGOW.

BOOT AND SHOE WAREHOUSE:

PATERSON AND ST. JAMES' STREETS.

FURNITURE WAREHOUSE:

DUNDAS STREET, GLASGOW.

BOOT AND SHOE FACTORY, CLOTHING FACTORY, CABINET WORK-SHOP, PRINTING WORKSHOP, PRESERVE AND CONFECTION WORKS, MANTLE FACTORY, COFFEE ESSENCE WORKS, TOBACCO FACTORY, AND PICKLE WORKS:

SHIELDHALL, near GOVAN, GLASGOW.

Scottish Co-operative Wholesale Society Limited.

BRANCHES:

LINKS PLACE, LEITH. GRANGE PLACE, KILMARNOCK.

TRADES LANE, DUNDEE.

HENRY STREET, ENNISKILLEN, IRELAND.

TEA AND COFFEE DEPARTMENT:

Hooper Square, Leman Street, Whitechapel, London.

BANKERS:

THE UNION BANK OF SCOTLAND LIMITED.

HEAD OFFICES:

GLASGOW:

LONDON:

EDINBURGH:

INGRAM STREET.

62, CORNHILL, E.C.

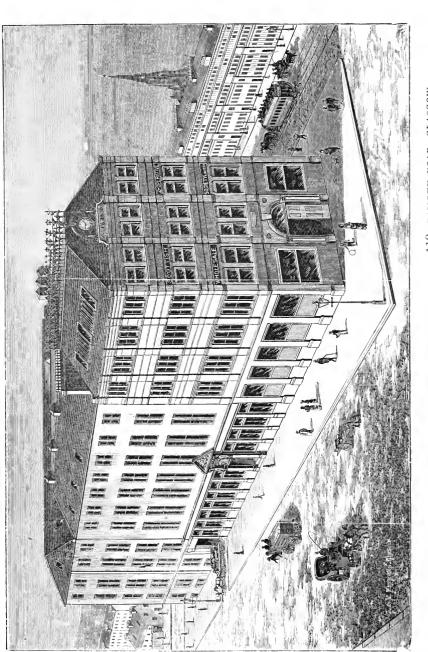
GEORGE STREET.

MANAGER:

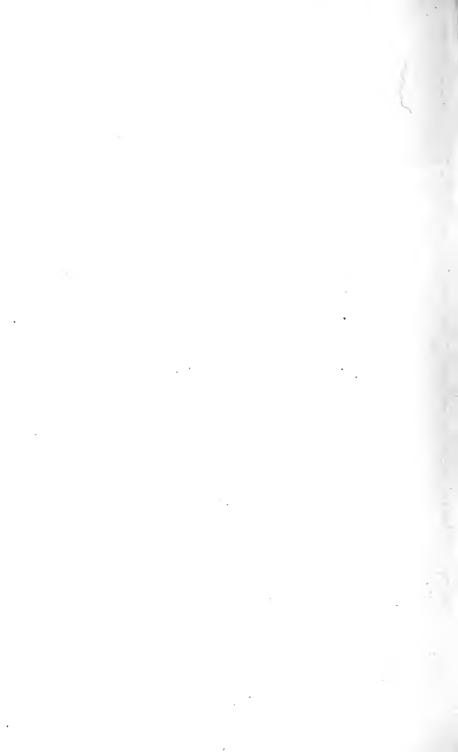
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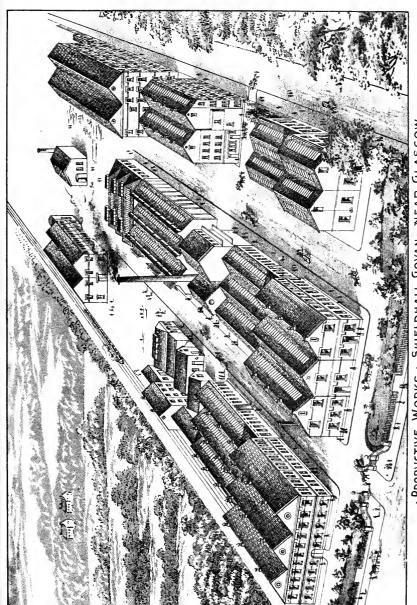
MANAGER:

CHARLES GAIRDNER. JOHN A. FRADGLEY. HENRY HAY NORIE.

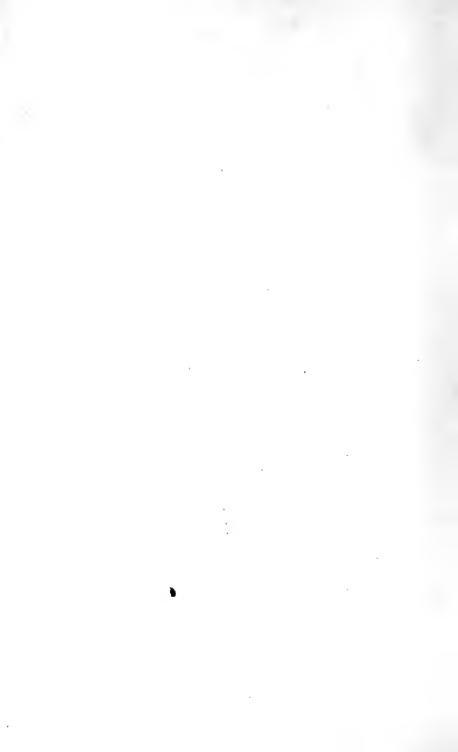


REGISTERED OFFICE, GROCERY AND PROVISION WAREHOUSES, 119, PAISLEY ROAD, GLASGOW. See pages 130, to 132.





· PRODUCTIVE WORKS · SHIELDHALL, GOVAN; NEAR GLASGOW.



General Committee.

PRESIDENT:

Mr. WILLIAM MAXWELL, 36, Woodburn Terrace, Morningside, Edinburgh.

SECRETARY:

Mr. ANDREW MILLER, Moss Road, Tillicoultry.

DIRECTORS:

Mr. ISAAC MACDONALD	7, Knoxland Street, Dumbarton.
Mr. DANIEL THOMSON	67, Priory Lane, Dunfermline.
Mr. JOHN STEVENSON	2, Park Lane, Kilmarnock.
Mr. T. C. Mc.NAB	25, Dalmeny Street, Leith.
Mr. JOHN ARTHUR	139, George Street, Paisley.
Mr. HENRY MURPHY	Bloomgate, Lanark.
Mr. JOHN PEARSON	Ludgate Place, Alloa.
Mr. JOHN ADAMS	12, Anderson Street, Kinning Park.
Mr. PETER GLASSE	Myrtle Street, Glasgow.
Mr. THOMAS LITTLE	3, Hall Street, Galashiels.

SUB-COMMITTEES.

FINANCE: Mr. WILLIAM MAXWELL, Mr. JOHN STEVENSON. Mr. ANDREW MILLER (Convener).
Building: (Mr. ISAAC MACDONALD. Mr. HENRY MURPHY. Mr. ANDREW MILLER. Mr. THOMAS LITTLE. Mr. WILLIAM MAXWELL (Convener).
$ \begin{array}{c} \text{Productive:} \left\{ \begin{matrix} \text{Mr. ISAAC MACDONALD.} \\ \text{Mr. JOHN ADAMS.} \\ \text{Mr. JOHN PEARSON (Convener).} \end{matrix} \right. \end{array} $
Drapery: { Mr. THOMAS LITTLE. Mr. PETER GLASSE. Mr. T. C. McNAB (Convener).
GROCERY: { Mr. HENRY MURPHY. Mr. DANIEL THOMSON. Mr. JOHN ARTHUR (Convener).

AUDITORS:

Mr. JOHN ALEXANDER, Paisley. | Mr. JOHN MILLEN, Rutherglen. Mr. JAMES INGLIS, Paisley.

Officers of the Society.

MANAGER:

Mr. JAMES MARSHALL, Glasgow.

ACCOUNTANT:

Mr. ROBERT MACINTOSH, Glasgow.

CASHIER:

Mr. ALLAN GRAY, Glasgow.

BUYERS, SALESMEN, &c. GROCERY AND PROVISION DEPARTMENTS.

Mr. JNO. JAMIESON......Glasgow. Mr. JAS. CALDWELL (Carting Superintendent)Glasgow. Mr. W. F. STEWART.....Leith. Mr. PETER ROBERTSON.....Leith. Mr. ANDREW PENNEY (Cattle Buyer)Leith. Mr. DAVID CALDWELLKilmarnock. Mr. WILLIAM WHYTE Enniskillen. Mr. CHARLES FIELDING (Tea)London. Mr. JOHN WHITE (Potatocs) Leith. Mr. N. ANDERSON (Traveller, Grocery Department)Glasgow. Mr. GEORGE BLACKWOOD (Traveller, Grocery Department) . . Glasgow. Mr. WM. DUNCAN (Cattle Buyer).......Glasgow. Mr. DAVID GARDINER (Drapery Department)Glasgow. Mr. ALEX. Mc.FARLANE (Tailoring Factory)Glasgow. Mr. ALBERT JOHNSON (Boot and Shoe Factory)Glasgow. Mr. DAVID CAMPBELL (Printing)Glasgow. Mr. HENRY HEGGERTY (Preserve Works)Glasgow. Mr. THOMAS HARKNESS (Tobacco Factory)Glasgow. Mr. JAMES COATS (Mechanics' Department)......Glasgow.

Business Arrangements.

REGISTERED OFFICE:
119, PAISLEY ROAD, GLASGOW.

BRANCHES:

LINKS PLACE, LEITH; GRANGE PLACE, KILMARNOCK;

TRADES LANE, DUNDEE;

HENRY STREET, ENNISKILLEN, IRELAND;

HOOPER SQUARE, LEMAN STREET, WHITECHAPEL, LONDON.

BUSINESS ARRANGEMENTS.

Societies or Companies Registered (to which our trade is strictly confined) desirous of opening an account with this Society, will please forward a copy of the registered Rules and latest issued balance sheet. If newly started, a statement showing the number of members; value of shares; amount subscribed for and paid up; weekly turnover expected; also, if credit is allowed, the amount per member in proportion to the capital paid up. The information forwarded will be carefully considered, and, if found satisfactory, goods will be supplied on the usual business terms.

CASH PAYMENTS.

BESIDES the usual invoice sent with each consignment of goods, a weekly statement of accounts (see page 126) is sent to each society, so that there may be no delay in remitting the amount due for the month, the limit of credit allowed by this Society. Interest at the rate of 5 per cent per annum is charged on all overdue accounts, and by a resolution adopted at a general meeting of the members, the committee of management are instructed and empowered to examine the books of defaulting societies and take the necessary steps to protect the interest of the federated societies.

BUSINESS NOTICE.

When ordering goods state price or brand of the article wanted, also mode of transit, and name of station to which the goods are to be sent. Orders for the different departments should be written on separate slips. Goods not approved of must be returned at once and intact. No claim for breakage, short weight, &c., can be entertained unless made within six days after goods are received. Delay in delivery should be at once advised.

WEEKLY STATEMENT OF ACCOUNT.

5TH WEEK. 73RD QUARTER. LEDGER FOLIO, 929.

119, Paisley Road, GLASGOW, September 3rd, 1887.

The Grahamston and Bainsford Co-operative Society Limited.

Dr. To The Scottish Co-operative Wholesale Society Limited. Cr.

	GOODS.			CASH AND	CREDITS.	
Date.	Amount of each Invoice.	Balance last Statement.	Date.	Cash.	Credit.	Totals.
Aug. 30 " 30 " 30 " 30 " 30 " 30 " 30 " 30 " 31	18 11 7 29 0 8 32 4 0	£ s. d. 698 7 2	Aug. 30 , 31 , 31 Sept. 1 , 1 , 1 , 2 , 2 , 3 , 3 , 3 , 3 , 2	£ s. d.	£ s. d. 0 5 0 1 0 0 0 12 9 0 12 10 0 12 9 0 12 9 0 14 9 0 15 6 10 11 1 0 15 6 1 12 0	£ s. d

If the above Statement differs from your Books, we shall be glad if you will point out the difference at once.

Terms of Rembership.

MEMBERSHIP.

The Rules relating to the admission of members are:—

No. 6.—The society (that is, the Wholesale) shall consist of such co-operative societies, registered or deemed to be registered under the Industrial and Provident Societies Act, 1876, or Companies Act, 1862-67, as have been admitted by the committee, and each admission must be entered in the minute book of the society. Every application for shares must be sanctioned by a resolution of a general meeting of any society or company making such. The application must be made on the printed form supplied, and duly attested by the signatures of the president, secretary, and three members thereof, and stamped with such society's seal. Every society or company making an application for shares shall state the number of its members, and take not less than one share for each member, and shall increase the number annually as its members increase in accordance with its last return to the Registrar; but no member other than a society registered under the Industrial and Provident Societies Act, 1876, shall hold an interest in the funds exceeding £200.

No. 7.—The capital of the society shall be raised in shares of twenty shillings each. Every member on admission shall pay the sum of not less than one shilling on each share taken up, and the unpaid portion of the shares may be paid up by dividends and interest; but any member may pay up shares in full or part at any time.

APPLICATION FORM.

Whereas, by a resolution of the	erative
Society Limited, passed at a general meeting held on the.	day
of, it was resolved to take upshares	(being
one share of twenty shillings for each member), said share	s being
transferable, in the Scottish Co-operatibe Wholesale Society &	imited,
and to accept the same on the terms and conditions speci	fied in
the Rules. Executed under the seal of the society on the.	day
of Attested by	

																		٠,		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•			Three	Members.
_		_)	

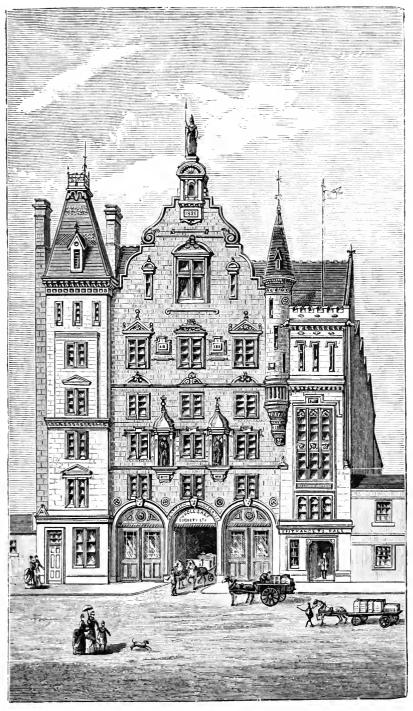
BENEFITS DERIVED FROM MEMBERSHIP.

- (a) The liability of the member is limited, each member being only responsible for the value of the shares held.
- (b) Members receive double the rate of dividend on purchases paid to non-members.
 - (c) Share capital is paid 5 per cent per annum.
- (d) Members have a share in the management of the Wholesale in proportion to the amount of goods bought, as each society, besides one vote in right of membership, is allowed an extra vote for each £1,000 worth of goods bought.

These advantages, added to the special benefits secured by the leading position of the Wholesale, will, we trust, induce societies as yet non-members to carefully reconsider the question, and take the necessary steps to secure to their members the full benefits of co-operative distribution.

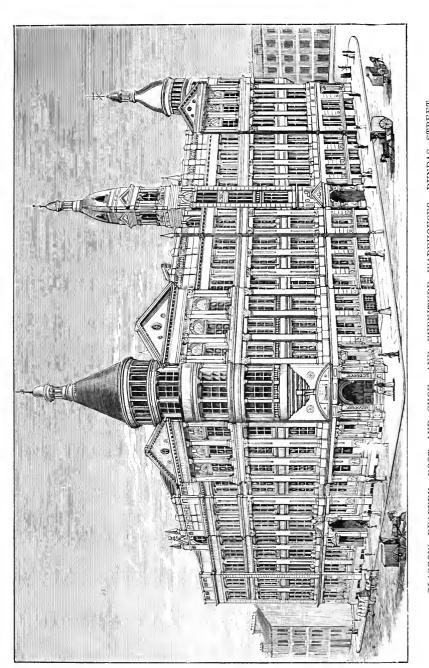
CORRESPONDENCE.

All letters must be addressed to the society, and not to individuals. Addressed envelopes are supplied at cost price. Separate slips ought to be used for the different departments—the Accountant's, Grocery and Provision, Drapery, Boot and Shoe, Furniture. The slips can all be enclosed in the one envelope. Attention to this simple rule will greatly facilitate the despatch of goods and ensure promptitude in answering inquiries; it will also aid in the classification of the letters for reference in any case of irregularity or dispute.



GLASGOW GROCERY AND PROVISION WAREHOUSE AND HALL, CLARENCE STREET.—See page 132.





GLASGOW DRAPERY, BOOT AND SHOE, AND FURNITURE WAREHOUSES, DUNDAS STREET. See pages 138 to 143.



Cash Remittance.

Cheques must be made payable to the Society. If remitted through the Union Bank of Scotland Limited, the usual commission charged will be saved.

LIST OF BRANCHES OF THE UNION BANK OF SCOTLAND

HEAD OFFICES: —GLASGOW, INGRAM STREET; EDINBURGH, GEORGE STREET.

LONDON OFFICE: —62, CORNHILL, E.C.

Aberdeen. Aberdeen, George Street. West End. Aberfeldy. Aberlour, Strathspey. Alloa. Alva. Auchterarder. Auchtermuchty. Ballater. Banchory. Banff. Barrhead. Barrhill. Bathgate. Beith. Blair-Athole (sub to Pitlochrie).

Blairgowrie.
Braemar.
Brechin.
Bridge of Allan.
Buckie, Banffshire.
Castle-Douglas.
Coatbridge.

Crieff.
Cullen.
Dalbeattie.
Dalry, Ayrshire (open on

Coupar-Angus.

Thursdays-sub to Beith)
Dalry, Galloway.
Darvel (sub to Galston)

Darvel (sub to Galston).
Doune.
Dumbarton.

Dumfries.
Dunblane.
Dundee.
Dunkeld.

Dunning.

Dunoon.
Edinburgh, Downie Place.
,, Forrest Road.

Haymarket. Larklı
Hunter Square | Leith.

Branches:
Edinburgh, Morningside.

,, Newington. ,, Norton Park. ,, S. Morningside

(sub to Morningside). Edzell.

Elgin.
Ellon.
Errol.
Fochabers.
Forfar.

Fraserburg. Galston. Gatehouse. Girvan.

Glasgow, Anderston. ,, 174, Argyle St.

> ,, Bridgeton Cross. ,, Cowcaddens. ,, Hillhead. ... Kinning Park.

,, St. Vincent St., Tradeston. Trongate.

Govan.
Greenock.
Hamilton.
Helensburgh.
Huntly.
Inverary.
Inverness.
Inverurie.

Gourock.

Irvine.
Johnstone.
Keith.

Kilmarnock. Kincardine. Kirkcaldy. Kirkwall. Kirricmuir.

Ladybank. Largs. Larkhall. Lerwick.

Leslie. Lochgelly, Fifeshire.

Lochgilphead. Macduff. Maryhill.

Maybole.

Mearns (open on Tuesdays and Fridays—sub to Barrhead).

to Barrhead Millport. Moffat. Moniaive. New Pitsligo. Paisley. Partick.

Perth.
Peterhead.
Pitlochrie.
Port-Glasgow.
Portsoy.

Renfrew. Rosehearty.

St. Margaret's Hope, Orkney.

Scalloway, Shetland (open on Tuesdays and Fridays—sub to Lerwick). Shawlands, Glasgow.

Stewarton. Stirling.

Stonehouse (open on Mondays, Wednesdays, and Saturdays-sub to Lark-

hall). Stranraer. Strathaven.

Stromness.
Tarbert, Lochfine.

Tarland.
Thornhill.
Tillicoultry.
Troon.
Turriff.

Wick.

STATEMENT Showing the Progress of the Society from its Commencement in September, 1868, till date, with Companisons of Sales, and other information.

		Year or Quarter onding.	Number of Shares Subscribed— Societies.	Number of Shares Sub- scribed— Employés.	Capital: Includes Share, Loan, Reserve, and Insurance Fruds.	Net Sales.	Gross Total.	Increase on Corresponding Quarter or previous Year.	Rate per Cent Inc.	Expenses.	Rate per £ on Sales.
1st Quarter .	:	Dec. 7, 1868	:	:	£1,795	£9,697	4	دد	:	£153	3.8
1st Year—52 v	Wks	Dec. 5, 1869	:	:	5.174	81.094	90,791	:	:	1,035	3.0
50	:	Nov.1	: :	: :	12,542	105,249	196,041	24,155	29.1	1,549	3.5
3rd ,, 52	: :	,, 18, 1871	:	:	18,009	162,658	358,699	57,408	54.5	$^{2}180$	ယ ပဲ
4th	:	16, 1872	18,708	:	30,931	262,530	621,230	99,872	61.4	3,469	
5th	: :	15, 1873	21,271	:	50,433	384,489	1,005,719	121,958	1 6-4	5,055	3.1
6th	: :	14, 1874	24,654	:	48,981	409.947	1,415,667	25 458	9.9	6,696	G.60
7th	: :	13, 1875	27,112	:	56,750	430,169	1,845,836	20,222	6.4	7.137	
8th 51	: :		29,008	:	67,218	457,529	2,303,365	27,359	6.3	7,540	3.0
9th 52	: :	3, 1877	31,945	:	72,568	589,221	2,892,586	131,692	28.7	8,648	3.5
10th	: :	2, 1878		:	83,173	600,590	3,493,177	11,369	1.9	10,095	0.1
1th	: :	2, 1879		:	93,076	630,097	4,123,275	29,507	6-#	11,117	٠ <u>٠</u>
12th	:	30	41,584	:	110,179	815,221	4,968,496	215,124	34.1	13,020	3.7
3th ,, ,,	:		49,073	:	135,713	986,646	5,955,143	141,424	16-7	15,757	ŝ
4th ,,	:	., 4, 1882	53,684	:	169,428	1.100,588	7,055,732	113,942	11:5	19,686	<u>ب</u> ن
15th	:		59,529	:	195,396	1,253,154	8,308.886	152,565	13.8	22,120	<u>4</u>
16th " "	:	,, 1, 1884	65,331	:	244,186	1,300,331	9,609,218	47,177	3.7	24.307	4.5
7th	:	Oct. 31, 1885	70,066	:	288,945	1,438,220	11,047,438	137,888	10.6	27,314	4.5
18th ,, 60	:	Dec.25, 1886	79,874	:	333,658	1,857,152	12,904,590	418,931	29.1	36,942	4.7
19th ,, 53	:	,, 31, 1887	87,220	:	367,309	1,810,015	14,714,606	153,965	8.5 6	35,800	4.7
20th ., 52	:	29, 1888		:	409,668	1,963,853	16,678,460	178,897	100	39,411	4-8
21st ,, ,,	:	,, 28, 1889	107,004	:	480,622	2,273,782	18,952,242	309,928	15.7	44,311	4.6
22nd ,, ,,	:	,, 27, 1890	117,664	:	575,322	2,475,601	21,427,843	201,819	8.8	49,641	4.8
23rd	:	26, 1891	131,086	:	671.108	2,828,036	24,255,880	352,435	14.2	58,140	4.8
24th ,, 53	: :	,, 31, 1892	139,022	:	778,494	3,104,768	27,360,648	276,731	2.6	64,905	2.0
98th Quarter	:	April 1, 1893	142 653	1,400	833,930	740,997	28,101,646	28,683	3.7	16,952	5.5
041	-	T.: 1 1902		9175	201 541	707 459	660 668 86	80 515	6.5	17.810	5.4

STATEMENT Showing the Progress of the Society from its Commencement in September, 1868, till date, with Comparisons of Sales, and other information.—Continued.

	Year or Quarter	rrter	Net Profit,	Total Net Profit.	Aver- age Divi-	RESERVA	RESERVE AND INSURANCE FUNDS.	NOE FUNDS.	ALLOWED AND	DEPRECIATIONS ALLOWED ON BUILDINGS AND FIXTURES.
	enun				dend.	Added.	Withdrawn.	Total Amount.		Amount. Total Amount.
1st Quarter	Dccember '	7, 1868	£48	વર	Ę.	£48	3	33	€3	#
Year-	December	5, 1869	1,308	1.352	1 25	63		110	190	190
2nd ,, 50 ,,	November 1		2,418	3,770	43	324	:	436	G =	950
:	,,	_	4,131	7,902	5,	578	: :	1 014	205	455
4th ,, ,, ,,	,	16, 1872	5,435	13,337	45.	471	: :	1.485	346	801
oth ,, ,, ,,	,,		7,445	20,783	41 104	355	141	1,700	657	1.439
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1			7,553	28,336	44	1,049	104	2,644	784	2.243
	•		8,232	36,569	-, 1	338	580	2,402	321	2,565
out " 51 "	•	Ξ.	8,836	45,405	4	791	672	2,522	452	3.017
•	:		10,925	56,330	7	816	343	3,097	485	3,503
141, ,, ,,		2, 1878	11,968	68,298	-11	721	569	3,549	1,155	4.659
,, ,, ,,			14,988	83,287	ο ο γ	2,315	160	5,606	1,336	5,095
244 77 77 77			21,685	104,973	63	3,134	336	8,404	1,086	7,082
(th , 50 ,,	November	5, 1881	23,981	128,954	9	3,086	2,694	8,796	1,653	8,735
	:	٦,	23,219	152,174	54	3,854	334	12,286	1,688	10,424
	:	3, 1883	28,365	180,540		3,801	1,530	14,557	2,420	12,844
th ,, ,, ,,		1, 1884	29,434	209,974	54	4,428	1,525	17,471	2,039	14,884
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1			39,641	249,616	 9	4,393	610	21,254	3,475	18,359
1041 " 00 "	December 2		50,398	300,014	63	5,528	1,315	25,566	2,980	21,340
10th " 60 "	: :		47,278	347,293	2 1	8,474	1,389	32,651	3,019	24,360
33	2	29, 1888	53,538	400.833	6.1	7,615	3,392	36,874	8,170	32,530
opp ,, ,, ,,	2	_ '	61,756	462,588	69	10,241	2,941	44,177	6,284	38,815
52md ,, ,, ,,	2	27, 1890	76,545	539,134	7	10,636	1,931	52,882	6,843	45,659
2014 11 11 11 11 11 11 11 11 11 11 11 11 1			89,090	628,225	63	12,326	3,362	61,846	11,433	57,092
:			96,027	724,352	e3+ 0+	17,353	5,052	74,147	10,219	67,311
ooth Yuarier	April	1, 1893	24,266	748,519	2	3,770	1,026	76,892	4,866	72,178
44	o any	1, 1855.	24,704	773,223	2	4,068	F96	79.997	3.049	75.228

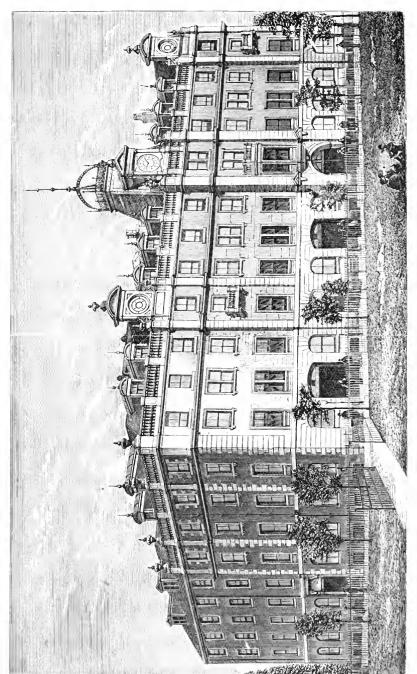
GROCERY DEPARTMENT, GLASGOW.

YEARLY STATEMENT. SALES, EXPENSES, AND NET PROFIT.

Drapery Parallel Profile Pro					NET SALES.				Rate		Kate	
Drapery Drapery Drapery Drapery Total. Total. Total. Solid. Total.							t	Expenses				Stocks.
Proc. 7, 1848 F. 8. d. G. 8. d. F. 8. d. G. 8. d. F. 8. d. G. 9. d. G. 9			Drapery and Boots.	Dundee.	Kilmarnock.	Grocery, G'asgow.	Total.					
Name			1	1	or.	,	αż		d.	8 3		લ
Name	Onarter ending Dec.	7. 1868		:	:		-		- :	48 12		X 20, 1
Nov. 18, 1871 10, 1872 10, 1874 10, 1875 11, 1874 11, 1874 11, 1875 1	:		::	:	:				2 to	1,385,10	_	27.0
16, 1873 1871 1871 1872 187	νο.		:	:	:		160 650 7 7		200	2 Tal 2		14,000
16, 1872 16, 1872 17, 1874 17, 1874 18, 1874 19, 1874	:		:	:	:		01 01 000,201		100	F. 49F. 9	_	01 050
14, 1874 18.	:		:	:	:		981 189 A 0			7,445 19		24.510
13, 1875 1476 147	:		:	:	:	409.947 7 9	409.947 7 9			7,553 5		24,700
1, 1877 1, 1879 1, 1877 1, 1	=		:	:	:	130,169 7 11	430,169 7 11	7,137 15		8.239 11	_	20,100
1. 1. 1. 1. 1. 1. 1. 1.		1000	01 0 630 69		:	414,576 19 6	457,529 0 4	7,540 2		8,836 2		39,550
1, 2, 1874 56,490 17 7		1077	50 656 11 9			507,589,1(4	558,237 8 6	8 196 19	25.55	10,443 15		39,510
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		1878	56 480 17 7			467,342 1 0	523,822 18 7	8,976 5	1 11	10,289 0		40,130
Ord. 10, 1840 SRINSG 9 10, 1840 1847 15 10, 1840 18 17, 1840 0 17, 1840 0 17, 1841 0 18, 17, 1840 18 17, 1840 18 18 18		1879	66.046.3			481,949 12 2	541,995 15 11	9,832 8		12,625 11	_	20,1:0
Nov. 5, 1881 Dec. 5, 1891 Dec. 18, 1891 Dec. 18, 189	50 Oct. 3	1480	83,856 9 10			615,601 5 5	10	10,880 2	_	17,908 0	_	43,190
May 6, 1882 58,190 8 19,182 14,237 16 2,183 18 7,200 16 2,200 18 7,200 18 7,200 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 10 19 19 19 10 19 19 19 19 10 19 10 19 19 19 10	Se	35	102,157 0 11	11,121 15		679,531 6 4	21 5	12,930 11	_	18,439 1		53,380
Nov. 4, 1842. 3, 1843. 4, 1842. 1, 1844. 1, 1844. 1, 1845. 1	6 months ,, May	6, 1882.	53,190 8 0	10,385 14	12,982 1 4	336,413 13 0	٠ ۽	x ;	_	01 002 2		00000
1, 1, 1885. 1, 1, 1885. 1, 1, 1885. 1, 1, 1885. 1, 1, 1885. 1, 1, 1885. 1, 1, 1885. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	6 , Nov.		:	:	:	250, KS4	٦,	0.000	2 2	15,850 8		98.37
1, 1841 1841	52 weeks " "	3, 1883	:	:	:	7:0 4.69 11 7		11,159.5	. 6.	14.98	10	30,081
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	52	1, 1881	:	:	:	761 880 7 11	1	11.881	0 3-7	16.187	0.9	28,130
1, 1887 1, 1887 1, 1887 1, 1887 1, 1888 1, 1		1.1000	:	:		0 61 080 986	986,030 19 0	14,481 16	8.7	19,073	6 †	37,450
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	50 11 11 1755	1887				895,560 6 4	895,560 6 4	13,163 8	7 8:5	20,351 5	2.5	56,095
26, 1889 1,148,832 5 1,148,832 5 1,148,832 5 1,146,172 8 8 4 7,593 18 97, 1800 1,223,450 6 1,223,450 6 1,233,450 8 1,233,450 8 1,346,722 0 20,141 8 3,714 5 9,713 1,413,722 0 1,419,722 0 20,141 8 8,714 7 1,818 1,892 0 1,413,722 0 20,141 8 8,714 7 1,818 8 1,883 1,8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	29, 1888			:	972,790 2 2	972,790 2 2	14,435 1	_	23,399 9	_	44.610
97, 1880. 1.223,450 16 3 1,223,450 16 3 1,740 17 18 34 30,580 15 7 1 1,419,722 0 0 1,419,722 0 0 20,141 6 3 25 5 3 5 25 5 9 1,714 6 7 1 1,189	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.8 1889.		:	::	1,148,832 5 5	1,148,832 5 5	16,190 9	_	27,930 15	_	000,000
1, 26, 1891. 1, 1892. 1, 1, 1892. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1893. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	52	37, 1890	:	:::	::	1,223,450 16 3	1,223,450 16 3	17,406 17	_	20,350 13		00,00
9, 81, 1882	59 33 33	8	:	, ::	:	1,419,722 0 0	1,419,722 0 0	20,141 6	_	31,714 or one	_	000 000
1971 4, 1893	53	Ξ,	:	::	::	1,559.700 × 6	1,559,700 8 6	01 869.22		10 455 3		100 500
inly 1; 1893	18 " April	÷			::	385,215 6 . 6	885,215 6 6	0,008	_	10,400	9	00 200
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	13 " " July	Ť,	:	:		400,667 18 6	409,667 18 6	6,109 9		10,403	2	ogiton
7 21.507 10 0 12.982 1 4 16.972.664 15 7 17.456.492 2 0 263.685 5 3 3 5 0 388,740 10 5	Total		449.887.15 1	91.507 10 0		16.972.664 15 7	17,456,492 2 0	268,685 5	8 8.6	388,740 10 8	6.3	:

INTERIOR OF CO-OPERATIVE HALL, CLARENCE STREET, GLASGOW,





LEITH GROCERY AND PROVISION WAREHOUSE, LINKS PLACE.

See page 133.



GROCERY DEPARTMENT, LEITH.

YEARLY STATEMENT, SHOWING SALES, EXPENSES, AND NET PROFIT.

QUARTERLY STATEMENT,

FROM DATE OF KEEPING

Quarter Ending	Net Sales.	Expenses.
	£ s. d.	£ s. d.
August 5, 1882	6,594 0 5	190 15 1
November 4 1882	8,849 10 3	221 7 8
February 3, 1883	9,894 13 1	245 18 11
May 5, 1883	10,192 13 4	236 7 10
August 4, 1883	7,979 7 10	245 14 8
November 3, 1883	11,625 19 8	225 0 1
February 2, 1884	8,446 16 2	217 1 5
May 3, 1884	9,492 2 9	197 12 5
August 2, 1884	9,145 12 11	208 15 8
November 1, 1884	12,989 a 11	198 7 11
January 31, 1885	10,094 9 8	204 18 3
May 2, 1885	8,874 3 9	159 14 3
August 1, 1885	8,644 2 7	192 11 6
October 31, 1885	14.012 17 7	208 14 3
January 30, 1886	9,461 10 4	204 13 0
May 1, 1886	9,439 14 11	177 13 5
July 31, 1886	9,434 7 4	193 15 8
*December 25, 1886	23,129 5 10	309 3 2
March 26, 1887	11,129 13 7	170 3 9
June 25, 1887	9,928 13 5	189 4 9
September 24, 1887	15,469 2 4	221 10 8
December 31, 1887	16,152 2 11	245 9 8
March 31, 1888	11,715 9 7	179 9 8
June 30, 1888	13,539 14 3	202 10 10
September 29, 1888	13,946 14 7	218 14 2
December 29, 1888	15,162 13 11	229 9 1
March, 30 1889	10,597 0 5	178 4 0
June 29, 1889	11,538 7 6	216 13 3
September 28, 1889	14,378 11 7	224 18 1
December 28, 1889	17,926 18 8	233 2 5
March 29, 1890	12,361 8 6	194 12 5
June 28, 1890	13,618 4 4	275 0 3
September 27, 1890	14,223 6 2	199 8 3
December 27, 1890	16,807 11 3	246 2 10
March 28, 1891	14,162 9 0	222 13 6
June 27, 1891	14,804 7 6	274 11 7
September 26, 1891	16,299 14 11	264 15 11
December 26, 1891	22,168 2 4	327 1 2
March 26, 1892	16,745 1 7	276 11 9
June 25, 1892	15,327 12 8	315 14 3
September 24, 1892	17,342 12 1	335 16 11
December 31, 1892	23,251 16 11	374 11 5
April 1, 1893	17,353 1 8	305 15 3
July 1, 1893	15,298 10 11	339 9 7

^{*} Twenty-one weeks. † Fourteen weeks.

GROCERY DEPARTMENT, KILMARNOCK.

A SEPARATE ACCOUNT.

tate per £ of Sales.	Net Profit.	Rate per £ of Sales.	Stocks.	
d.	£ s. d.	d.	£	
7.0	163 7 8	6.0	535	
6.0	137 9 1	3.7	1,550	
5.9	362 11 7	8.7	2,320	
5.5	472 3 0	11.1	2,120	
7.3	238 4 11	7.1	720	
4.6	176 13 6	3.6	1,663	
6.1	123 10 4	3.5	2,898	
4.9	162 2 9	4.0	1,781	
5.4	114 15 5	3.0	963	
3.7	235 6 3	4.2	2,812	
4.8	69 14 9	1.6	2,521	
4.3	258 5 9	6.9	1,750	
5.3	102 4 1	2.8	1,132	
3.5	534 12 2	9.1	2,300	
5.2	295 13 5	7.5	2,010	
4.5	289 7 4	7.3	1,600	
4.9	264 10 0	6.7	760	
3.2	908 16 9	9.4	2,070	
3.6	364 3 8	7.8	2,615	
4.5	255 7 8	6.1	1,525	
3.4	895 18 3	13.6	1,070	
4.2	758 15 6	11.2	2,585	
4.0	328 8 3	6.7	2,850	
3.6	379 15 5	6.7	2,410	
3.8	23 10 11	0.4	2,329	
3.6	324 10 8	5.1	3,200	
4.0	178 19 2	4.0	2,080	
4.5	102 6 9	2.1	2,600	
3.7	406 12 5	6.8	1,420	
3.1	623 11 11	8.3	2,910	
3.7	560 3 8	10.8	2,040	
4.8	563 8 7	9.9	1,050	
3.3	550 8 9	9.2	190	
3.5	$972 \ 15 \ 1$	13.8	2,400	
3.7	685 3 1	11.6	1,480	
4.4	609 2 3	9.8	2,000	
3.8	620 3 7	9.1	1,170	
3.5	875 2 0	9.5	2,225	
3.9	1.070 6 5	15.3	2,400	
4.9	786 7 3	12.3	2 440	
4.6	358 10 10	4.9	2,070	
3.8	897 7 7	9.2	2,000	
4.2	658 4 6	9.1	2,070	
5.3	298 14 7	4.6	1,985	
4.2	19.047 7 6	7:9		

QUARTERLY STATEMENT,

FROM DATE OF KEEPING

Quarter Ending	Net Sales.	Expenses.		
	£ s. d.	£ s. d.		
August 5, 1882	6,328 4 0	237 2 11		
November 4, 1882	7,180 12 3	207 17 9		
February 3, 1883	8,513 10 1	217 6 4		
May 5, 1883	8,583 16 3	226 13 4		
August 4, 1883	9,050 6 4	245 1 3		
November 3, 1883	8,533 5 8	218 11 2		
February 2, 1884	9,278 1 10	235 12 9		
May 3, 1884	10,943 14 6	252 16 9		
August 2, 1884	12,648 2 11	262 11 10		
November 1, 1884	13,776 3 6	275 12 6		
January 31, 1885	12,080 7 2	291 8 8		
May 2, 1885	13,424 7 0	242 12 6		
August 1, 1885	14,930 3 3	251 12 1		
October 31, 1885	15,685 3 4	271 7 11		
January 30, 1886	12,248 16 9	248 12 8		
May 1, 1886	13,616 12 9	283 8 7		
July 31, 1886	14,912 1 10	265 7 11		
*December 25, 1886	22,975 17 8	397 17 9		
March 26, 1887	13.916 4 6	244 6 5		
June 25, 1887	13,810 2 11	241 9 2		
September 24, 1887	15,064 15 6	265 8 7		
December 31, 1887	16,231 4 0	281 14 4		
March 31, 1888	12,205 12 7	246 11 4		
June 30, 1888	14,865 19 7	262 6 11		
September 29, 1888	14,857 13 3	281 9 7		
December 29, 1888	15,323 1 0	284 8 1		
March 30, 1889	16,415 11 3	256 13 3		
June 29, 1889	20,090 11 2	286 1 0		
September 28, 1889	19,022 12 6	295 18 4		
December 28, 1889	17,987 11 8	284 1 6		
March 29, 1890	15,713 6 7	274 19 11		
June 28, 1890	16,324 16 0	288 16 9		
September 27, 1890	18,593 3 6	321 13 11		
December 27, 1890	16,411 8 5	303 8 0		
March 28, 1891	19,284 18 2	322 10 5		
June 27, 1891	19,673 16 4	313 17 9		
September 26, 1891	21 683 3 1	310 16 4		
December 26, 1891	19,207 14 2	296 1 6		
March 26, 1892	21,503 7 8	290 18 2		
June 25, 1892	22,609 4 l	314 3 2		
September 24, 1892	24.100 0 1	354 16 8		
December 31, 1892	23,459 3 2	314 3 2		
April 1, 1893	21,282 4 1	299 13 0		
July 1, 1893	24,031 11 5	313 9 1		
Totals	688,405 3 9	12,181 11 0		

^{*} Twenty-one weeks.

GROCERY DEPARTMENT, DUNDEE.

A SEPARATE ACCOUNT.

Rate per £ of Sales.	Net Profit.	Rate per £ of Sales.	Net Loss.	Rate per £ of Sales.	Stocks.
d.	£ s. d.	d.	£ s. d.	d.	£
8.8			126 19 9	4.8	1,205
7.0		l	98 12 7	3.3	1,474
6.1	57 12 4	1.8			1,040
6.3	96 1 7	2.7			1,080
6.5	5 15 3	0.1			1,923
6.1	71 2 5	2.0			2,455
6.1	88 14 11	2.2			2,250
5.6	181 7 10	4.0			1,975
50	260 9 7	4.9			2,950
4.8	73 16 8	1.3		1	2,690
5.8	111 1 3	2.2		11.	1,080
4.3	189 3 2	3.4			1,950
4.0	359 16 4	5.8		7.	2,940
4.2	348 15 2	5.3			2,890
4.8	238 13 5	4.6			1,300
5.0	86 11 2	1.5	••••	••	2,670
4.2	205 17 7	3.3		+	3,250
4.1	348 8 3	3.7	•	• • • • • • • • • • • • • • • • • • • •	2,600
4.2	163 5 0	2.8	• • • •	•,•	1,885
4.2	210 10 3	3.6	••••		3,050
4.2	212 6 11	3.4	••••	••	3,020
4.2	279 17 11	4 2	••••	••	3,210
4.8	286 9 8	5.6	••••	•••	2,770
4.2	154 19 5	2.5	••••	••	3,740
4.5	253 8 2	4.1	••••	••	5,370
4.4	321 3 11	5.0	••••	••	2,710
3.7	245 2 6	3.5	••••	••	3,230
3.4	618 7 4	7.3	••••	••	5,940
3.7	60 4 11	0.7	••••	••	4,590
3.7	206 9 7	2.7	••••	••	4,150
4 2	244 7 7	3.7	••••	•••	3,420
4.3	244 8 2	3.6	••••	••	3,590
4.1	290 8 8	3.7	••••	••	5,390
4.4	364 2 5	5.3	••••	••	4,070
4.0	282 12 10	3.5	••••	••	4,070
3.8	309 10 10	3.7	• • •	••	5,200
3.4	458 0 11	5.0	• • • •	••	4,360
3.4	338 8 8	4.2	••••	••	3,550
3.2	390 5 0	4.3	• • • •	••	3,500
3.3	251 1 8	2.6	• • • •	••	4,660
3.5	464 9 11	47	••••	••	7,940
3.2	553 0 11	5.6	••••	••	3,990
3.3	453 10 4	5.1	••••	••	2,970
3·1		!	• • • •	• •	
9.1	606 6 8	60			5,280
4.2	10,996 7 1		225 12 4	••	
	225 12 4				
	10.770 14 9	3.7			

QUARTERLY STATEMENT,

FROM DATE OF KEEPING

Quarter Ending			
Quarter Ending	Boots.	Furniture.	Drapery.
August 5, 1882	£ s. d. 8,351 15 0	£ s. d. 2,693 6 11	£ s. d. 21,144 6 11
November 4, 1882	9,267 11 10	2,057 1 11	25,587 12 9
February 3, 1883	7,520 4 4	2,280 17 3	22,301 14 3
May 5, 1883	8,159 0 7	1,904 14 4	25,682 6 9
August 4, 1883	9,368 12 4	3,045 1 9	23,937 10 11
November 3, 1883	9,658 4 3	2,518 11 10	30,562 12 8
February 2, 1884	8,944 16 1	2,994 17 9	26,445 3 8
May 3, 1884	9,782 13 2	2,307 11 1	30,463 14 9
August 2, 1884	10,981 0 10	4,595 4 10	28,337 2 6
November 1, 1884	10 884 13 3	2,887 1 9	34,034 16 0
January 31, 1885			30,267 3 3
May 2, 1885			37,153 15 9
August 1, 1885			33,578 12 7
October 31, 1885	l		39,994 14 4
January 30, 1886			33,029 17 3
May 1, 1886			44,570 7 11
July 31, 1886			42,129 5 5
*December 25, 1886			75,835 10 10
March 26, 1887			40,647 13 5
June 25, 1887			50,432 4 9
September 24, 1887			47,697 15 3
†December 31, 1887			55,420 13 10
March 31, 1888			48,630 9 0
June 30, 1888			56,216 13 4
September 29, 1888			57,138 9 11
December 29, 1888		••••	56,928 16 6
March 30, 1889		••••	55,006 12 0
June 29, 1889		••••	64,163 10 4
September 28, 1889		••••	67,747 18 7
December 28, 1889		••••	74,256 1 8
March 29, 1890		••••	71,632 4 4
June 28, 1890		••••	81,166 2 4
September 27, 1890		••••	82,909 0 0
December 27, 1890		••••	90,353 10 7
March 28, 1891		••••	75,469 2 3
		••••	
		••••	
September 26, 1891		••••	
December 26, 1891		••••	
March 26, 1892		••••	
June 25, 1892		••••	100,312 14 3
September 24, 1892		• • • •	97,495 2 3
† December 31, 1892		••••	112,572 7 1
April 1, 1893	••••	••••	92,117 12 4
July 1, 1893		••••	94,045 12 6
Totals		71-3	2,542,821 13 5

^{*} Twenty-one weeks.

DRAPERY DEPARTMENT.

A SEPARATE ACCOUNT.

NET SALES.	Expenses.	Rate per £ of Sales.	Net Profit.	Rate per £ of Sales.	Stocks.
£ s. d.	£ s. d.	£	£ s. d.	£	£
£ s. d. 32,189 8 10	£ s. d. 1,123 9 9	8.4		8.7	28,560
		8.8		8.7	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.2	34,030
32,102 15 10 35,746 1 8	$1,409 11 5 \\ 1.438 12 11$	9.6		7.3	33,260
,	-,	9.5	-,		31,231
36,351 5 0	1,447 8 1		1,284 12 4	8.5	31,253
42,739 8 9	1,534 9 3	8.6	1,807 4 8	10.1	32,281
38,384 17 6	1,588 18 8	9.9	1,605 11 5	10.0	33,192
42,553 19 0	1,666 5 8	9.4	1,591 16 7	9.0	36,065
43,913 8 2	1,731 9 9	9.4	1,717 4 10	9.3	35,784
47,806 11 0	1,827 15 5	9.1	1,899 14 5	9.5	39,661
30,267 3 3	1,290 0 9	10.2	1,319 11 1	10.1	31,084
37,153 15 9	1,414 15 11	9.1	$1,492 \ 17 \ 7$	9.6	32,340
33,578 12 7	1,438 19 0	10.2	1,211 0 11	8.7	31,020
39,994 14 4	1,547 6 10	9.2	1,847 0 5	11.0	35,990
33,029 17 3	1,554 9 2	11.2	1,216 7 10	9.0	33,150
44,570 17 11	1,641 9 6	8.8	1,709 19 3	9.2	36,340
42,129 5 5	1,705 8 3	9.7	1,801 11 5	10.3	40,100
75,835 10 10	3,362 6 4	10.6	3,983 5 11	12.6	45,740
40,647 13 5	2,028 12 8	11.9	1,248 2 8	7.3	47,670
50,432 4 9	2,081 15 1	9.9	2,185 17 1	10.4	$42,\!170$
47,697 15 3	2,065 14 10	10.3	2,234 6 10	11.2	45,870
55,420 13 10	2,294 1 9	10.0	2,487 10 2	10.7	41,400
48,630 9 0	2,176 17 7	10.7	1,661 14 11	8.2	48,645
56,216 13 4	2,257 18 4	9.6	2,175 16 9	9.2	43,240
57,138 9 11	2,324 4 0	9.7	$2,\!186\ 15\ 11$	9.2	50,050
56,928 16 6	2,486 11 6	10.4	2,057 16 3	8.6	47,990
55,006 13 0	2,493 3 11	10.8	2,294 3 2	10.0	54,600
64,163 10 4	2,645 6 9	9.9	3,167 18 6	11.8	50,900
67,747 18 7	2,776 1 7	9.8	2,707 18 0	9.5	64,600
74,256 1 8	2,887 18 9	9.3	3,230 4 0	10.4	58,800
71,632 4 4	2,997 12 3	10.0	3,297 1 4	11.0	72,080
81,166 2 4	3,306 17 9	9.7	3,416 9 5	10.1	62,200
82,909 0 0	3,597 19 6	10.4	3,400 5 8	9.8	74,620
90,353 10 7	3,709 0 1	9.8	4,456 19 3	11.8	64,000
75,469 2 3	3,915 7 4	12.4	2,738 0 2	8.7	78,000
87,041 2 1	4,101 15 7	11.3	3,088 16 11	8.5	70,100
87,043 18 2	4,030 16 4	11.1	3,269 6 3	9.0	80,980
100,331 15 2	4,091 11 4	9.7	4,716 18 9	11.2	69,970
90,987 12 0	4,312 4 7	11.3	3,410 19 8	9.0	84,400
100,312 14 3	4,375 13 0	10.4	4,331 15 8	10.3	77,810
97,495 2 3	4,541 0 1	11.1	4,141 16 5	10.2	85,680
112,572 7 1	4,838 11 9	10.3	5,132 1 9	10.9	79,420
92.117 12 4	4.708 2 4	12 2	2,895 2 10	7.5	90,050
94,045 12 6	4,793 14 5	12.2	3,645 10 11	9.3	85,269
663,024 14 6	114.917 10 9	10.3	108,605 4 9	9.8	

QUARTERLY STATEMENT,

FROM DATE OF KEEPING

				Net S	Net Sales.		Exp	ense	8.
				£	s.	d.	£	s.	d.
Quarter	ending	January	31, 1885	10,188	11	5	290	18	9
,,	11	May	2, 1885	12,549	19	5	353	2	4
"	,,	August	1, 1885	16,185	10	11	429	16	10
		October	31, 1885	16,542		4	529	0	6
"	,,	January	30, 1886	14,120	7	6	549		11
"	,,			,	٠ 5	3		-	0
,,	**	May	1, 1886	16,190	-	•	556		
**	**	July	31, 1886	16,467	16	11	538	0	6
,,	,,	December	25, 1886	28,856	18	8	980	7	10
,,	11	March	25, 1887	14,242	19	10	602	18	11
,,	,,	June	25, 1887	18,416	14	3	602	10	3
,,	,,	Septembe	r24. 1887	17,259	16	10	598	15	6
		_	31, 1887	20,704		9	736	4	10
,,	,,	March	31, 1888	16,373		5	669		
"	,,			•		-			
,,	"	June	30, 1888	19,721		3	652		
,,	11	Septembe	r29, 1888	19,657	10	9	705	. 7	2
,,	,,	December	r 29, 1888	22,183	2	7	781	13	8
,,	,,	March	30, 1889	18,000	17	5	751	17	11
,,	,,	June	29, 1889	24,306	1	9	873	14	1
,,	,,	Septembe	er28, 1889	22,671	17	3.	872	5	2
		•	r 28, 1889	26,200			893	19	7
,,	"	March	29, 1890	22,593			900		•
,,	,,			•					
,,	"	June	28, 1890 er27, 1890	$28,847 \\ 29,285$			1,022 929		
**	,,		r 27, 1890	31,008				18	
"	"	March	28, 1891	27,090		3	988		-
,,	,,	June	27, 1891	34,702		11	1,040	19	
"	"		er26, 1891	33,273			1,019		
•,	,,		r 26, 1891	37,424	1	0	1,097	15	8
,,	٠,	March	26, 1892	29,028		5	1,088	15	7
,,	,,	June	25, 1892	39,526	1	10	1,230		10
*,	,,	Septembe	er24, 1892	35,601	10	8	1,200	1	
"	"	† Decembe	r 31, 1892	42,902			1,387		
19	,.	April	1, 1893	32,874	3	1	1,352		-
"	*1	July	1, 1893	43,534	17	11	1,742	5	2
		Totals	-	838,537	10	9	28,927	8	5

^{*} Twenty-one weeks. † Fonrteen weeks.

BOOT AND SHOE DEPARTMENT.

A SEPARATE ACCOUNT.

Rate per £ of Sales.	Net Profit.	Rate per £ of Sales.	Stocks.
	£ s. d.	1	£
6.8	596 3 8	14.0	5,990
6.7	608 18 9	11.6	5 530
6.4	777 3 8	11.5	9,400
76	499 12 2	7.2	11,520
9.3	460 5 6	7.8	11,200
8.3	560 19 3	8.3	11,130
79	585 11 5	8.5	11,490
8.2		7.8	15,500
10.1	256 19 6	4.3	14,150
7·8	616 6 6	8.0	13,185
8.2	310 11 7	4.3	14,730
8.3	605 2 9	7 0	15,490
10.1	153 9 6	2.3	15,630
8.0	389 16 3	4.7	11,710
8.6	464 2 1	5.6	13,300
8.4	424 2 5	4.7	15,390
10.0	240 2 8	3.2	14,680
8.6	589 8 9	5.8	15,070
	1		
9.2		4.7	18,000
8.2	720 13 3	6.6	16,950
9.5	444 10 10	4.7	16,420
8.5	885 16 10	7.4	16,560
7·7 7·4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 7.2 \\ 7.8 \end{array}$	15,650 $14,360$
8.7	889 8 2	7.8	14,930
$7 \cdot 2$	1,292 6 11	8.9	17,050
7.3	1,238 11 2	8.9	14,800
7.0	1,515 18 10	9.7	17,470
9.0		8.3	17,630
		9.9	16,760
7.4	1,645 17 8		
8.1	1,208 12 7	8.1	16,650
7.7	1,906 4 3	10.6	20 490
9.8	1,084 0 1	7 9	21,480
9.6	1,442 18 6	7 9	25,747
8.0	26,706 18 4	7:6	
0.0	20,100 10 4	10	• • • •

QUARTERLY STATEMENT, FURNITURE

FROM DATE OF KEEPING

				Net S	ales		Exper	ises.
				£	8.	d.	£	d
Quarter	endin	g January	31, 1885	3,022	18	2	210 1	1 11
,,	,,	May	2, 1885	2,636	9	6	262	5 10
,,	,,	August	1, 1885	7,200	12	9	392	6 7
•		October	31. 1885	5,599	11	1	420	1 5
"	*1	January	20, 1886	6,744		11		7 4
"	**	_	'			0	470 1	•
**	,,	May	1, 1886	7,026	7	-		-
,,	,,	July	31, 1886	9,621	_	11	500	9 6
,,	,,	*December	r 25, 1886	13,157	12	1	914	4 7
,,	1,	March	25, 1887	7,315	11	8	577 1	4 1
	,,	June	25, 1887	11,033	17	4	590 1	7 11
"			r24, 1887	8,567		0	618 1	2 4
,1	,,		r31, 1887	11,956		7	723	6 11
,,	"	•		,				
,,	,,	March	31, 1888	8,295	17	1		6 7
,,	,,	June	30, 1888	12,865	9	6	738	3 6
,,	,,	Septembe	er29,1888	9,876	13	4	780	1 6
,,	,,	Decembe	r 29, 1888	12,582	11	8	860 1	.0 4
	-	March	30, 1889	9,970	0	8	814	4 1
"	,,	June	29, 1889	15,812		7	918	7 0
17	"		′ 1	· ·				
,,	,,		er28, 1889	12,451		0	905 1	
,,	,,	Decembe	r 28, 1889	16,871	0	8	930 1	.8 5
**	,,	March	29, 1890	14,418	6	7	926	4 4
,,	,,	June	28, 1890	21,501	17	11	1,045	3 0
•,	"		er27, 1890	18,076				5 1
,,	,,		r 27, 1890	22,149		4	1,261 1	
,,	,,	March	28, 1891		13	8	1,287 1	
,,	,,	June	27, 1891	25,335		11	_/	1 8
,,	,,		r26, 1891	19,759	6	0	. 1,384 1	
**	"		r 26, 1891	24,953	4	7		7 10
,,	,,	March	26, 1892	18,157	1	11 5		1 11
,,	**	June	25, 1892 r24, 1892	27,834 $20,853$		11	1,578 1	0 5 8 3
**	,,		31, 1892	27,476	-	0	, ,	6 7
**	"	April	1, 1893	19,575		1	1,662 1	
"	"	July	1, 1893	28,271		_	1,870 1	
97	"	July	1, 1000	20,271			1,010 1	· ·
		Tota	als	496,069	12	7	32.506 1	2 3

^{*} Twenty-one weeks.

‡ Fourteen weeks.

AND FURNISHING DEPARTMENT.

A SEPARATE ACCOUNT.

Rate per £ of Sales.	Net Profit.	Rate per £ of Sales.	Stocks.
d.	£ s. d.	d.	£
16.7	81 13 3	6.4	3,500
23.8	†4 17 11	0.4	4,410
13.0	221 4 9	7.4	4,620
18.0	133 3 10	5.6	5,600
15.8	145 4 10	5.2	6,180
16.0	195 9 8	6.4	7,020
12.4	410 10 0	10.2	7,650
16.6	292 9 7	5.4	7,400
	160 16 8	5.2	8,750
18.9			,
12.8	641 14 4	13.9	9,290
17.3	323 12 11	9.0	9,570
14.5	677 17 2	13.6	9,150
19.3	311 7 10	9.0	10,370
13.9	735 16 7	13.9	10,540
18.9	245 16 0	5.9	10,000
16.4	412 16 5	7.8	10,820
19.6	285 2 3	6.8	11,990
13.9	762 19 10	7.5	11,170
17.4	625 14 2	12.0	10,380
13.2	916 2 10	13.0	10,350
			•
15.4	567 11 8	9.4	11,410
11.6	1,339 5 4	14·9 17·0	11,150
15·3 13·6	1,287 13 10 $1,504$ 10 0	16.2	12,240 $13,600$
20.4	557 8 2	8.8	15,700
13.3	1.323 6 11	12.5	16,350
16.8	1,138 9 3	13.8	16,520
14.1		9.9	
		5.4	16,400
19.7	410 18 11		18,330
13.6	1,368 12 10	11.8	16,600
17.2	1,096 18 3	12.6	16,700
15.2	1.298 19 10	11.3	16,330
20.3	$356 \ 2 \ 2$	4.3	17.350
16.0	1,440 19 1	12.2	17,453
15.7	22,301 6 7	10.9	

PRODUCTIVE DEPARTMENT.

QUARTERLY STATEMENT SHOWING

Quarter Ending	Transferred.	Production.	Expenses on Production.
	£ s. d.	£ s. d.	£ s. d.
November 4, 1882	427 10 10	427 10 10	319 12 11
February 3, 1883	542 7 3	542 7 3	386 2 6
May 5, 1883	541 8 10	541 8 10	404 5 6
August 4, 1883	647 18 2	647 18 2	484 17 7
November 3, 1883	537 13 10	537 13 10	357 13 9
February 2, 1884	464 3 0	464 3 0	304 3 7
May 3, 1884	587 6 0	587 6 0	435 16 7
August 2, 1884	631 8 0	631 8 0	463 8 0
November 1, 1884	838 10 10	838 10 10	450 5 9
January 31, 1885	661 1 6	661 1 6	426 4 10
May 2, 1885	838 8 3	838 8 3	491 7 3
August 1, 1885	947 8 5	947 8 5	569 11 6
October 31, 1885	1,164 13 7	1,164 13 7	692 2 0
January 30, 1886	1,128 2 2	1,128 2 2	742 7 1
May 1, 1886	1,474 0 7	1,474 0 7	814 6 1
July 31, 1886	1:511 2 1	1.511 2 1	869 4 8
*December 25, 1886	2,139 13 9	2,139 13 9	1,420 12 6
March 26, 1887	1,587 2 3	1.587 2 3	926 18 10
June 25, 1887	2.265 11 8	2,265 11 8	1.351 1 8
September 24, 1887.	1,927 17 10	1,927 17 10	1,282 9 8
December 31, 1887	2.298 14 10	1.965 1 1	1,286 17 8
March 31, 1888	1.529 11 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	2,212 9 9	-,	-,
June 30, 1888 September 29, 1888	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1,335 15 10 1.404 15 8
December 29, 1888	2,319 5 1	-,	-,
	-,0-0 0 -	-,	-,
March 30, 1889	-,	-,,,,,	1,210 6 10
June 29, 1889	-,	-,	1,450 15 11
September 28, 1889	1,865 7 0	1,932 14 0	1,258 6 5
December 28, 1889	3,027 12 11	3,233 4 0	1,660 14 5
March 29, 1890	2,624 6 1	6,446 19 3	1,703 14 3
June 28. 1890	4,078 11 4) 3,223 20 3 ()	1,957 3 8
September 27, 1890	3,208 11 1	7.691 2 10	1,996 15 4
December 27, 1890	3,957 18 3) ',552 (2,175 4 5
March 28, 1891	2,249 16 9	6,012 16 5	1,666 3 10
June 27, 1891	3,877 5 5) 0,022 20 0	1,908 17 10
September 26, 1891	2,507 17 0	6,743 18 1	1,833 12 2
December 26, 1891	4,482 8 3) 0,,10 10 1	1,878 19 3
March 26, 1892	2,558 0 1	7,283 9 10	1,973 10 0
June .25, 1892	4,886 4 6) ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,212 16 0
September 24, 1892	2,952 8 1	8,533 19 11	1,974 6 8
December 31, 1892	5,201 6 11) 0,000 10 11	2,436 5 7
April 1. 1893	3,429 12 9	8,263 11 8	2,182 7 8
July 1, 1893	4,609 15 8	5 0,200 11 0	2 515 6 9
Totals	92,368 5 2	91,843 5 1	53,785 14 10
			•
		•	

^{*} Twenty-one weeks.

TAILORING FACTORY.

EXPENSES AND NET PROFIT.

Rate per Cent.			Net Loss.	Rate per Cent.	Stocks	
	£ s. d.		£ s. d.		£	
74.71	1 11 2	0.53				
$71 \cdot 21$	34 9 10	6.27			168	
74.67			15 9 5	2.77	187	
74.80			7 2 10	1.08	258	
66.48		••••	0 8 2		304	
65.51	13 14 9	2.80			289	
74.11			1 16 4	0.2	344	
73.37	15 1 0	2.37			415	
53.70	18 9 9	2.14			341	
64.45	20 0 0		38 15 8	5.74	306	
58.59	54 17 5	6.44	00 10 0	"	327	
60.08	58 3 2	6.12	••••	••••	410	
59.45	5 19 5	0.51	••••	••••	445	
65.78	0 19 0		4 1 11	0.35	523	
55.22	38 14 11	2.57			325 326	
57·51	15 13 10	0.99	••••	• • • •	268	
94.91	19 19 10		36 17 2	1.60	208 485	
	21 3 11	1.32		1.68	407	
58.34			• • • •	••••		
59.64	111 17 4	4.90	100 11 0	7.01	617	
66.52	• • • •	• • • •	139 11 0	7.21	849	
65.44	40.74	••••	68 18 3	3.51	424	
63.65	42 14 2	2.48	••••	• • • •	615	
59.94	109 15 2	8.16	••••	• • • •	687	
63.73	167 6 10	7.58		• • • •	818	
59.30	189 7 3	7.51	••••	••••	1,083	
67.76	84 0 11	4.70		• • • •	1,083	
59.12	241 16 2	9.84		••••	1,012	
65.11	142 3 3	7.35	••••	• • • •	1,278	
51.34	467 1 9	14.44	••••		1,280	
56.77	646 2 7	10.02	••••	· · · •	1,191	
54.23	699 16 9	9.10		••••	1,564	
59.46	550 6 9	9.15			1,638	
55.02	736 18 7	10.92		••••	1,222	
57.47	867 10 0	11.90			1,218	
51.67	1,011 1 4	11.84		• • • •	1,663	
56.84	1.026 10 2	12.41			1,782	
58.56	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	••••	313 0 9	0.34	••••	
	7,059 7 5	7.68				

PRODUCTIVE DEPARTMENT.

QUARTERLY STATEMENT SHOWING

Quarter Ending	Transferred.	Production.	Expenses on Production.
	£ s. d.	£ s. d.	£ s. d.
November 4, 1882	201 11 0	201 11 0	159 13 10
February 3, 1883	207 9 10	207 9 10	176 16 1
May 5, 1883	208 8 0	208 8 0	171 5 8
August 4, 1883	168 1 11	168 1 11	147 14 11
November 3, 1883	175 13 4	175 13 4	159 3 1
February 2, 1884	225 16 1	225 16 1	188 4 5
May 3, 1884	234 2 3	234 2 3	193 8 0
August 2, 1884	178 18 8	178 18 8	161 13 5
November 1, 1884	231 2 7	231 2 7	200 15 11
January 31, 1885	294 9 10	294 9 10	244 0 8
May 2, 1885	474 7 1	474 7 1	256 1 5
August 1, 1885	303 19 5	303 19 5	182 7 11
October 31, 1885	000 -0 0	334 11 4	202 10 8
		355 4 8	216 10 6
			245 3 7
May 1, 1886	409 10 4		
July 31, 1886	422 4 4	422 4 4	
December 25, 1886	705 17 7	705 17 7	
March 26, 1887	391 17 6	391 17 6	248 3 1
June 25, 1887	400 7 4	400 7 4	235 18 8
September 24, 1887	343 6 10	343 6 10	228 16 4
December 31, 1887	496 4 8	514 14 4	320 12 8
March 31, 1888	517 4 1	510 6 9	314 13 9
June 30, 1888	557 17 2	564 7 9	377 0 4
September 29, 1888	605 11 11	606 7 8	410 5 2
December 29, 1888.	691 7 4	699 12 10	475 8 0
March 30, 1889	765 6 11	753 8 2	443 10 7
June 29, 1889	677 5 1	677 7 0	429 14 6
September 28, 1889	$650 \ 4 \ 0$	643 7 8	406 11 7
December 28, 1889	705 1 8	730 5 7	448 10 7
March 29, 1890	674 $\overline{5}$ 11	1	409 13 6
June 28, 1890	695 7 3	1,357 11 9	431 7 9
September 27, 1890	614 9 2	K	431 0 2
December 27, 1890	874 10 9	$ \{ 1,495 \ 2 \ 10 \ \} $	509 0 0
March 28, 1891	608 3 7	14	475 0 10
June 27, 1891.	1,059 13 5	1,687 17 8	523 3 3
September 26, 1891	566 17 11	R	471 3 6
December 26, 1891		1,666 15 3	577 11 4
March 26, 1891	-,	[]	490 16 11
	637 4 9	1,570 7 10	
June 25, 1892 September 24, 1892	909 19 9	[]	530 6 5 503 18 5
	631 17 2	1,862 13 4	
December 31, 1892	1,181 18 5	[]	688 16 9
April 1, 1893	880 18 5	1,816 19 3	573 14 8
July 1, 1893	994 10 11) 2,020 20 0	643 4 1
Totals	23,418 17 5	23,424 5 7	15,174 11 4

SHIRT FACTORY.

EXPENSES AND NET PROFIT.

Rate per Cent.	Net Profit on Production.	Rate per Cent.	Net Loss.	Rate per Cent.	Stocks	
	£ s. d.		£ s. d.		£	
79.10	21 9 4	10.44		••••		
85.02	8 5 6	3.86		• • • •	12	
82.21	5 7 8	2.40			12	
87.5	7 16 9	4 76			11	
90.85	0 9 3				15	
83.55	9 18 8	4.44			29	
82.47	7 16 10	2 99			22	
90.44		- 00	8 16 10	4.91	16	
86.57			7 9 9	3.22	20	
83.02	13 1 3	4.42			20	
54.00	37 16 7	7.80	••••		55	
60.06	23 18 5	7.78	••••		53	
60.47	14 9 3	4.19	••••		70	
60.84	10 18 9	3.09	••••		52	
59.9	14 10 1	3.42	• • • •		43	
59.71		6 16	• • • •	••••	61	
			• • • •	••••		
59.29	20 7 0	2.83	• • • •		48	
63.26	8 10 8	2.04	• • • •	••••	108	
59.00	8 8 3	2.00	••••	• • • •	90	
66.76	3 11 6	1.02			86	
62.25	19 15 0	3.83			92	
61.57	9 10 1	1.76			97	
66.84	1 11 10				115	
67.65			$12 \ 9 \ 7$	1.98	114	
67.85	••••		11 17 10	1.71	112	
- 58.80	69 7 11	9.16			102	
63.36	30 7 9	4.43			106	
63.14	58 19 9	9.17			105	
61.37	51 13 11	7.12			119	
61.09	122 10 9	8-99			93	
62.87	131 5 9	8.76			72	
59.16	142 5 10	8.41			131	
62.90	192 18 10	11.58			120	
65.03	141 6 3	8.98			215	
64.01	103 19 8	5.58			208	
66-97	147 2 7	8 09			146	
64.78	1,465 19 3 40 14 0		40 14 0	0.17		
	1.425 5 8	6.08				

PRODUCTIVE DEPARTMENTS.—QUARTERLY STATEMENT.

SLOP FACTORY.

Stocks	£ 1	192	186	126	100	434	:
Rate per Cent.	44.58	7.18	3.30	5.34	4-93	2.43	3.86
Net Profit.	£ 8 d.	95 4 1	40 2 6	68 11 9	67 2 6	36 10 0	261 3 1
Rate per Cent.	93:80	67.32	71.53	70 28	70.32	98-29	62-69
Expenses.	w =	424 10 9 465 18 11		3 8		41 ∞	4,711 9 1
Production.	£ s. d.	12	8 61 112,1	11,272 2 11	1,358 1 6	1,481 6 11	6,750 4 5
Transferred.		508 13 4 778 19 4					6,630 14 4
Quarter Ending	1890	28, 27,	ber 26, 1891 ber 26, 1891	26, 1892 . 25, 1892 .	ber		Totals

MANTLE FACTORY.

Stocks.	£ .	350	324	275	463	:
Rate per Cent.	8.64	3.84	9.56	:	5.40	4.97
Net Loss.	£ s. d.	52 3 0	107 17 7	:	63 4 9	310 2 8
Rate per Cent.	:	:	:	6.30	:	1.55
Net Profit.	£ 8. d.	:	:	97 6 1	:	97 6 1
Rate per Cent.	73-03	64-30	69-44	57.84	68.52	65.88
Expenses.	, w w	(458 17 5 (398 15 3 471 8 3	. 62 E			4,105 17 0
Production.	£ 8. d.	1,352 19 4	1,165 4 11	1,541 19 2	$ \begin{cases} 1,166 & 0 & 2 \end{cases} $	6,231 10 10
Transferred.	£ s. d.			10		6,201 14 1
Quarter Ending	28,	June 27, 1891 Sept. 26, 1891		2,4	<u> </u>	Totals

PRODUCTIVE DEPARTMENTS.—QUARTERLY STATEMENT. HOSIERY FACTORY.

Stocks.	£ 785	:
Rate per Sent.	1.57	1.57
Net Loss.	£ s. d.	43 8 2
Rate per Cent.	:	:
Net Profit.	£ s. d.	
Rate per Cent.	35.35	35.35
Expenses.	£ s. d. 467 5 10 496 6 9	963 12 7
Production.	£ s. d.	2,724 0 3
Transferred,	£ s. d. 1,248 13 3 1,583 7 8	2,832 0 11
Quarter Ending	April 1, 1893 July 1, 1893	Totals

PRODUCTIVE DEPARTMENT.

QUARTERLY STATEMENT SHOWING

Quarter Ending	Transferred.	Production.	Expenses.		
May 2, 1885 August 1, 1885 October 31, 1885 January 30, 1886 May 1, 1886 July 31, 1886 March 26, 1887 June 25, 1887 September 24, 1887 December 31, 1888 June 30, 1888 June 30, 1888 June 30, 1888 June 29, 1888 September 29, 1888 December 29, 1888 March 30, 1889 June 29, 1889 December 28, 1889 December 28, 1889 December 27, 1890 June 28, 1890 September 27, 1890 December 27, 1890 December 27, 1890 December 27, 1890 March 28, 1891	£ s. d. 3,298 16 7 5,222 6 4 5,283 9 3 5,456 19 0 6,535 2 5 6,217 1 1 15,607 4 2 6,105 16 5 8,757 13 0 9,100 13 10 9,892 17 1 7,857 5 5 6,564 3 5 11,007 15 8 12,744 8 7 9,242 10 9 13,064 4 11 14,117 19 7 13,205 8 3 10,964 14 3 16,035 18 0 14,536 8 8 15,871 2 0 12,981 3 3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	£ s. d. 1,183 10 5 1,642 8 2 1,686 10 3 1,723 7 0 2,010 0 5 2,101 11 6 4,290 7 0 2,161 8 4 2,796 10 5 2,882 11 1 3,198 1 6 2,759 2 8 2,747 5 0 3,813 4 4 4,243 14 6 3,691 18 3 4,649 4 7 5,174 0 5 5,407 3 1 4,854 0 3 5,611 6 2 5,555 17 10 5,824 0 0 5,794 18 7		
June 27, 1891 September 26, 1891 December 26, 1891 March 26, 1892 June 25, 1892 September 24, 1892 †December 31, 1892 April 1, 1893 July 1, 1893	19,068 3 9 16,072 6 8 23,005 11 5 16,447 13 2 20,794 11 8 19,032 8 6 26,477 12 5 19,388 17 1 28,250 0 7	36,406 9 8 36,629 1 10 38,374 15 3 47,150 2 10 52,446 7 4	6,789 1 8 6,248 2 6 7,194 6 9 6,629 12 5 7,512 4 7 7,280 1 6 9,894 2 8 8,464 16 11 9,578 9 8		
Totals	428,208 7 2	445,041 14 4	155,393 0 5		

^{*} Twenty-one weeks.

† Fourteen weeks.

BOOT AND SHOE FACTORY.

EXPENSES AND NET PROFIT.

Rate per Cent on Production.	Net Profit on Production.	Rate per Cent on Production.	Net Loss.	Rate per Cent.	Stocks.
	£ s. d.		£ s. d.		£
35.87			47 9 10	1.42	2,176
31.44	65 14 11	1.24			2,613
31.91	$175 \ 4 \ 4$	3.31			3,435
31.57	81 8 8	1.48			3,386
30.75	165 13 2	2.52			4,042
33.77	215 3 5	3.45			5,231
27.49	651 19 9	4.17		11111	4,020
35.39	60 12 7	0.98			7.189
31.92	63 15 4	0.72	••••		7,350
31.66	393 16 3	4.31	••••	• • • • • •	6.108
32.40	619 19 8	6.28	••••		5,406
33.80	405 4 1	4.96	••••	••••	6,965
37.66	282 10 0	3.86	••••		7,886
83.64	450 13 11	3.97	••••		10,606
33.74	621 9 0	4.93	••••		11,869
35.32	430 0 7	4.11	••••	••••	12,423
32.32	611 3 0	4.24	••	••••	12,423
36.29	600 7 3	4.28	••••		14,658
36.04	909 12 1	6.06	••••	0	15,890
			••••		
36·5 6	1,867 10 10	6.52	••••	••••	19,920
37.30	1,744 10 11	5.71	••••	••••	17,349
34.56	1,635 2 2	4.49			24,080
36· 69	1,996 18 7	5.45	••••		18,292
36.85	2,115 17 8	5.51			18,006
36.42	2,743 19 7	5.82	••••		18,220
34.40	4,070 11 6	7-76			24,660
34.91	22,978 19 3		47 9 10	0.01	••••
	47 9 10				
	22,931 9 5	5.15			1

PRODUCTIVE DEPARTMENTS.

CABINET

Quarter Ending	Transferred.	Production.	Expenses.	
January 31, 1885 May 2, 1885 August 1, 1885 October 31, 1885 January 30, 1886 May 1, 1886 January 30, 1886 May 1, 1886 July 31, 1886 December 25, 1887 June 25, 1887 June 36, 1887 December 31, 1888 June 30, 1888 June 30, 1888 December 29, 1888 March 30, 1889 December 29, 1889 December 28, 1889 December 28, 1889 March 29, 1890 June 29, 1890 June 28, 1891 June 27, 1890 March 28, 1891 December 26, 1891 December 26, 1891 March 26, 1892 September 26, 1891 March 26, 1892 September 24, 1892 December 24, 1892 December 24, 1892	£ s. d. 144 3 9 338 8 1 388 0 5 417 17 7 361 0 0 371 8 1 504 6 6 994 19 4 620 2 1 582 12 0 656 13 0 629 9 6 457 14 8 960 9 2 1,194 4 6 1,477 10 8 1,445 7 0 1,830 0 8 1,784 1 6 2,594 18 11 2,626 4 5 3,511 12 4 2,933 19 11 4,266 18 5 2,682 8 8 4,294 4 10 3,364 10 4 4,338 3 11 3,182 12 0 4,374 4 4 3,793 5 6 5,168 3 11	## S. d. 144 3 9 338 8 1 388 0 5 417 17 7 361 0 0 371 8 1 504 6 6 994 19 4 620 2 1 582 12 0 656 13 0 697 19 11 651 11 8 801 0 9 1,269 8 0 1,601 12 11 1,612 15 3 1,797 2 9 1,707 6 11 2,654 14 7 6,116 7 10 7,312 2 1 7,340 2 9 7,806 11 0 7,784 17 1 9,602 0 0	£ s. d. 102 19 9 179 12 0 228 3 10 214 13 5 219 0 5 209 0 6 276 16 0 499 14 10 312 11 11 326 19 9 329 10 7 410 6 10 330 15 11 384 2 8 680 17 9 914 6 0 885 4 8 950 10 7 927 14 11 1,258 14 10 1,520 7 11 1,740 10 6 1,674 16 6 2,180 11 7 1,791 8 2 2,140 1 1 1,868 19 0 2,196 7 4 1,973 16 7 2,277 5 11 2,141 0 0 2,879 15 3	
April 1, 1893 July 1, 1893 Totals	2,983 11 9 5,549 4 11 	73,916 15 11	2,319 11 6 2,618 4 7 38,964 13 1	

^{*} Twenty one weeks.

QUARTERLY STATEMENT.

WORKSHOP.

Rate per Cent.	Net Profit.	Rate per Cent.	Net Loss.	Rate per Cent.	Stocks
	£ s. d.		£ s. d.		£
71.52			10 6 0	6.94	298
52.95	4 1 11	1.18			294
58.76	16 14 8	4.12		1	425
51.31	9 19 8	2.39		1	364
60.66	15 14 5	4.30	1		444
56.06	0 6 11				484
54.76	14 7 6	2.77			486
50.15	69 3 5	6.93		1	425
50.32	18 1 0	2.90			520
56.18	6 18 3	1 20	1		676
50.15	15 11 6	2.28			787
58.73	27 0 3	3.86			1,069
50.69	24 9 8	3-68			1,415
47.94	12 7 7	1.49			1,281
53.58			115 11 2	7.38	1,818
57.08	58 1 10	3.62			2,152
54.90	30 0 1	1.24			2,467
52.86	19 8 6	1.05			2,358
54.30	20 16 0	1.23			2,341
47.40	113 13 11	4.25	••		2,466
53.30	478 5 4	7.81	••	••	3,470
52.72	420 19 9	5.75	••		4,975
53.55	••	••	40 12 10	0.54	5,484
52.07	215 6 10	$2 \cdot 75$			6,124
54.61	216 4 7	2.77			5 845
52.28	724 4 5	7.54			6,808
50.48	510 16 10	5.21			7,97€
52:71	3,042 14 10		166 10 0	0.22	
	166 10 0	••.			
	2,876 4 10	3.89	-		

PRODUCTIVE DEPARTMENTS.—QUARTERLY STATEMENT.

BRUSH FACTORY.

Stocks.	#	823	1,302	1,775	2,758	2,281	2,991	2,920	
Rate per Cent.		9.53	5.27	7.48	4.75	3.39	5.25	1.19	5.05
Net Profit on Production.	£ s. d.	144 15 1	121 13 11	168 15 11	88 8 1	67 8 4	128 15 7	30 0 11	749 17 10
Rate per Cent.		99-68	36.16	40.68	43·10	42.46	44.13	38·12	40.55
Expenses on Production.	£ s. d.	238 15 2 360 8 6	 65	- 9	00	تا د.	2 2	6.5 13 9	6,025 7 0
Production.	£ s. d.	1,510 1 0	2,295 16 10	2,244 13 0	1,849 7 7	11,975 19 11	2,454 14 4	3 2,526 6 10	14,856 19 6
Transferred.	£ s. d.		5 5 5	~ œ		71	6 9	1,039 1 5 1,250 13 3	13,706 10 5
Quarter Ending			ber 27, 1890 per 27, 1890	28, 1891 7, 1891	1891 1891	26, 1892 25, 1892	24, 1892 31, 1892	1893 1893	Totals

Fourteen weeks.

PRODUCTIVE DEPARTMENTS.—QUARTERLY STATEMENT.

PRINTING WORKSHOP.

Stocks.	¥	175	287	180	240	228	326	425	438	602	206	3	832		1,223	1	1,351	9 144	441,2	0200	6,000	0201	1,000	:	
Rate per Cent.		6.43	6.35	9.19	11.84	8.83	5.08	7.13	7.59	6.18	9.17	110	4.99		6.03		97.6 6	10.17	11.01	66.1	40.4	10.79	61.01	7.87	
Net Profit on Production.	نعثا	13	14	16	9	78 5 7	6	91	14	19	901 0 3	,	200 9 5		245 16 10	•	4.72 6 10	206 10 0	1.0	000	2	0 21 202		3,485 4 5	
Rate per Cent.		53.13	50.57	45.33	48.55	45.81	55.43	53.26	49.65	55.19	48.10	07.05.	44.16		44.10		40.91	40.00	.c. 0± (19.50	on of	00.07	, 30 og	44.12	The second secon
Expenses on Production.	£ s. d.	347 14 7	350 5 6	$355 \ 11 \ 1$	$369 \ 12 \ 1$,405 8 s	469 9 4	530 13 9	510 0 0	616 4 6	689 7 1	837 4 9	861 11 8	908 IB a	913 0 9 843 18 3	942 18 1	1,117 0 4	1,147 12 6	1,257 17 1	1,363 16 9	1,615 19 8	1,565 1 5	1,476 10 0	19,535 17 3	
Production.		15	ī,	œ	760 19 5	61	846 17 10	995 2 4	1,027 3 8	1,116 8 1	11 6 0218	9	4,008 9 9		4,074 16 11		9,084 IO 0	K 967 10 10	2) y 4 yyoy	-	7 497 19 11	CT.	44,270 11 8	Application of the second seco
Transferred.	zć	14	16	14		888 14 4	18		6			2	1,981 12 2	4 0	<u>ہ</u> د	رۍ د	2	17	ж —	œ	13		3,886 11 4	43,976 9 6	
Quarter Ending		December 31, 1887	_	30.	ber 29, 1	ber 29, 1	30,1		per 28, 1		h 29, 1	., 8,	September 27, 1890	2 6			_	26, 1	ž	_	31,	April 1, 1893	July 1, 1893	Totals	

* Fourteen weeks.

PRODUCTIVE DEPARTMENTS.—QUARTERLY STATEMENT.

PRESERVE WORKS.

Quarter Ending	Transferred.	Production.	Expenses on Production.	Rate per Cent.	Net Profit on Production.	Rate per Cent.	Stocks.
	£ 8. d.	£ s. d.	£ s: d.		£ s. d.		n
œ	375 10	7 8 8 7	93 3 9	11.65	+15 5 1	1.89	944
	<u>-</u>	12,017 16 0	529 3 8 413 13 1	7.84	696 11 5	5.79	3,091
March 28, 1891	20	7,615 18 9	520 10 4 545 10 5	14.00	592 6 2	7.77	5,980
ber 26, ber 26,		28,495 2 7	(1,095 12 4 838 19 4	84.9	1,147 2 0	4.03	9,042
స్ట్ర స్ట్ర -	13,228 1 9 5,542 3 1	10,410 16 11	1,010 4 4 999 18 1	19-30	1,063 13 3	10-21	11,041
¥.E		40,212 8 7	1.610 8 0	7.56	1,742 14 3	4.33	21,380
April 1, 1893 July 1, 1893	17	21,419 16 11	1,241 1 7	13.11	757 10 6	3.53	16,566
Totals	109,457 11 7	120,970 8 4	11,898 17 10	9.83	5,984 12 6	4.04	:
		* Fourteen Days.	+ Loss.	† Fourteen weeks.			

PRODUCTIVE DEPARTMENTS.—QUARTERLY STATEMENT.

CONFECTIONERY WORKS.

Stocks.	£ 818	439	344	1,234	1,175	
Rate per Cent.	1.97	3.28	2.17	15.40	4.61	4.0
Net Profit on Production.	£ s. d. 18 15 7	76 15 3	45 6 7	+494 16 7	+238 10 2	†592 9 _. 4
Rate per Cent.	13.91	12.04	14.23	24.72	28-27	21.75
Expenses on Production.		12	138 18 10 156 13 3			3,154 13 6
Production.	£ s. d. 962 2 0	2,316 5 3	2,073 11 0	3,991 17 5	5,157 1 5	14,500 17 1
Transferred.	£ s. d. 846 1 1	978 6 6 1.341 15 2	967 13 7 1,218 1 11	1,240 8 3 2,053 9 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13,840 0 6
Quarter Ending	27,	2 9 9 9	March 26, 1892 June 25, 1892	31,	April 1, 1893 July 1, 1893	Totals

* Fourteen weeks. † Loss.

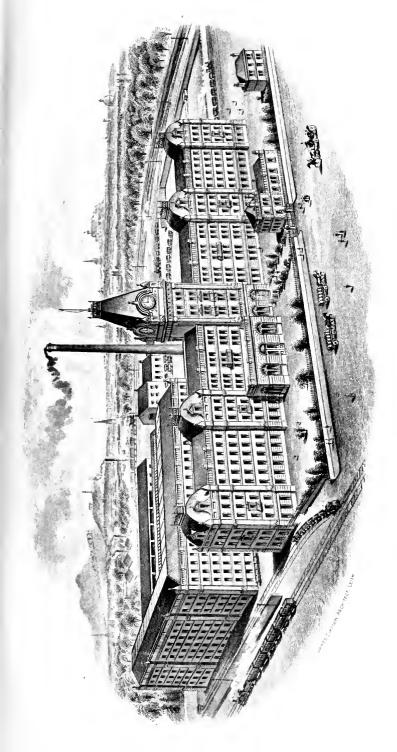
PRODUCTIVE DEPARTMENTS.—QUARTERLY STATEMENT.

TOBACCO FACTORY.

Stocks.	44	3,101	8,958	9,233	13,461	18,572	:		
Rate per Cent.		:	:	:	:	:	0.03		
Net Loss.	£ s. d.	41 11 0	:	:	:	:	41 11 0		
kate per Cent.		:	3.25	2.73	5.25	3.71	:	:	3.81
Net Profit on Production.	£ s. d.	:	693 2 11	713 4 9	1,725 6 10	1,216 10 8	4,348 5 2	41 11 0	4,306 14 2
Rate per Cent.		:	7.81	8 65	19.2	8.14	80.8		
Expenses on Production.	£ s. d.	38 0 3	1,079 0 1	(1,110 10 9 (1,143 7 6	1,171 11 3	1,348 14 0 1,319 9 5	9,139 18 10		
Production.	. в. а.	:	31,326 17 2	36,056 14 0	32,859 15 4	32,756 15 0	113,000 1 6		-
Transferred.	£ s. d.					16,704 9 6 16,811 8 2	108,359 6 6		
Quarter Ending		ne 27, 1891	Dec. 26, 1891.		Sept. 24, 1892 *Dec. 31, 1892		Totals 108,359		

ENNISKILLEN DEPOT-BUTTER, EGGS, AND BACON.





· CHANCELOT · ROLLER · FLOUR · MILLS, · EDINBURGH, 1891 · THE · SCOTTISH · CO-OPERATIVE · WHOLESALE · SOCIETY · L.P.



Emplopés.

NUMBER OF EMPLOYÉS, SEPTEMBER 30TH, 1893.

DISTRIBUTIVE DEPARTMENTS.

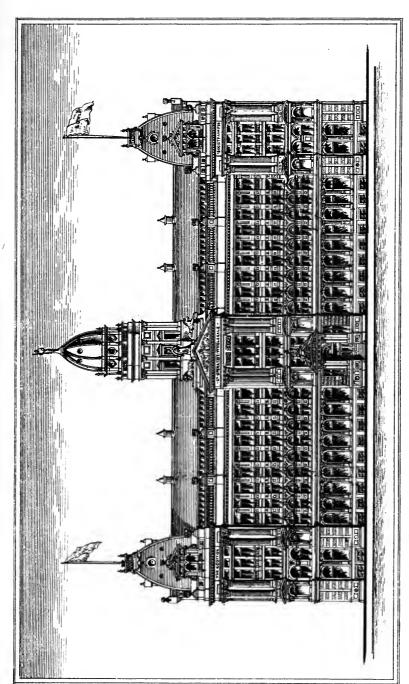
Collective

		·	Totals.
Counting House—General	\dots Glasgow	96	
Grocery	,,	72	
Stationery	,,	7	
Saddlery	,,	6	
Ham Curing	,,	20	
Potato	,,	3	
Cattle Buying	,,	1	
Sugar Forwarding	,,	1	
Drapery—General	,,	118	
Edinburgh Sample-room	,,	2	
Mantle	,,	9	
Millinery	,,	4	
Furniture	,,	49	
Boot	,,	35	
Clarence Street Dining-room	,,	5	
Shieldhall Dining-rooms	,,	14	
Sausage Work		9	
Carting	,,	53	
Leith	-	46	504
Kilmarnock		14	
Dundee		4	
Enniskillen		15	
Emiskinen	· · · · · · · · · · · ·		79
PRODUCTIVE DEPARTMENTS, SHIELD	HALL.		
General		7	
Boot Factory		•	
,, Parkview			
Tailoring Factory			
Printing Department			
Cabinet Workshop			
t	-		1,261
0 114		-	
Carried forward		• • •	1,844

NUMBER OF EMPLOYÉS, SEPTEMBER 30th, 1893.

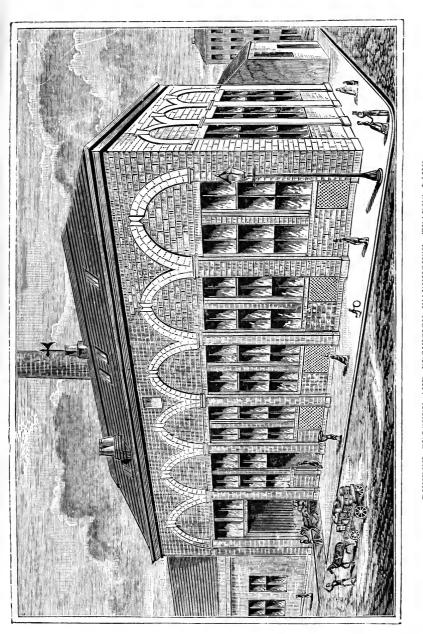
PRODUCTIVE DEPARTMENTS, SHIELDHALL.—Con.

	•	Collective Totals
Brought forward		1,844
Preserve and Confectionery Works	138	
Tobacco Factory	73	
Hosiery ,,	47	
Slop ,,	47	
Mantle ,,	36	
Shirt ,,	89	
Coffee Essence Factory	6	
Drug Department	9	
Mechanical Department	42	
Tinware Factory	14	
Pickle Work	22	
		523
Building Department.		
Glasgow—Joiners	67	
Builders	10	
Bricklayers	10	
Hewers	21	
Labourers	75	
Cooper	1	
Slaters and Plasterers	2	
Carvers	4	
Causeway Layer	1	
Plumbers	10	
Painters	28	
Electricians	3	
Management	5	
		237
Leith—Joiners	22	
Builders	46	
Hewers	67	
Labourers	75	
Painters	2	
Plumbers	8	
Farm—Carbrook Mains	16	236
Total		2,840



NEW CENTRAL OFFICES MORRISON STREET, GLASGOW.

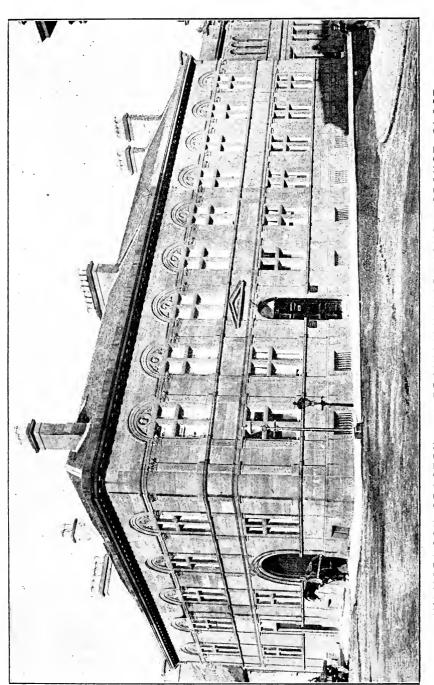




DUNDEE GROCERY AND PROVISION WAREHOUSE, TRADES LANE.

See page 136.





KILMARNOGK GROCERY and PROVISION WAREHOUSE, GRANGE PLACE.



SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY LIMITED.

<u>→</u>

We again that year by the various Co-operative Societies, and the percentage of those purchases made through the Wholesale Society. We again think it right to explain that the figures are taken from the sales shown in last Congress Report, less 20 per cent. This deduction does not, we admit, give in some cases the actual difference which ought to be deducted from selling to arrive at cost price, but we think that, generally speaking, the deduction is a fair one. We are certain that a comparison of this statement with that of last year will be of very considerable interest, and we earnestly hope that the result will be more loyal and consistent purchasing from the Wholesale Society.

				101	n -				6	0-	100	20		2 10	1-1	20 -	٠. ۵	-	21.0		10.	۰ و	-~	6	0	-	100	-
	nber,			031														_	_	_	-	-	-			-	-	-
	le of state of sea from sea from seale to the seale to the sea.	Percensulation	0.69	62.8	20.8	59-9	62-8	0.00	15.7	8.69	72.5	13.6	6-06	67.5	689	555.4	59-7	81.5	28.5	76-3	77-8	689	59-6	95.1	9	200	76.8	. 5
	ced Total es, belng ess than in wn in a Report.	Estimat Surchas 20 % 1 Sales s Sales s Sales s	3,021	70,968	6,861	9,297	26,100	10.985	1,120	1,128	6,590	5,522	47,995	22,668	13.578	12,924	31.372	18,523	9000	5.744	40,396	18,678	14,115	13,562	2,621	1,776	9,476	7,625
TED.		Total.	37	44,591	8,672	5,575	16,393	16,084	176	288	5,682	754	43,673	15.321	9,366	7,354	18,752	15,057	5,714	4.385	31,456	11.863	8 415	12,909	1,591	6,959	7,232	4,910
LIMITED	ESALE S	Furni- ture.	448	1,710	65	206	857	154	:	-11 2	20.00	4:5	1,235	366	292	2000	260	692	3 6	235	826	376	457	505	88	188	3 :	186
ETY	PURCHABED FROM WHOLESALE SOCIETY.	Boots.	4	1,928	:	72	512	25.23		:	653	13	2,685	1,13	32	292	016	1,230	1.65	487	1,461	1,011	478	818	105	# 65 65 65 65 65 65 65 65 65 65 65 65 65 6	3 :	302
SOCIETY	ASED FRO	Drap'ry	48	6,555	965	38	1,920	1001		63	246	200	4,438	1,585	790	596	20,00	2,399	818	26.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3,692	3,090	815	1,617	218	1,037	21.	880
ALE	PURCE	Grocery, Drap'ry	3	34,898	3,672	5,165	13,104	14,863	176	731	5,884	499	35,315	12,514	7,798	6 336	14,755	10,746	4,478	9.801	25,315	7,886	240	9,882	1,185	5,400	7,232	4,039
WHOLESALE	of Loan tal in le Society	rqsO	37:	14,725	682	436	9,076	2,409	9 61	30	16.5	9	4.925	4,217	1,061	106	6.054	973	1,007	8 7	7,541	3,912	61 13	548	150	139	120	8,017
WII	Capital olesale iety.	orade dw ai oos	35	2,500	908	808	837	1,100	107	88	25.5	33	1,650	200,	8.10	510	909	875	300	175	1,050	220	47	820	100	172	515	170
FIVE	of Loan as per s keport.	Amount StiqaD Seres	a	3,905		1.492	::	1,902	200,0	:	:	.007 :	25,438	718	4,189	6,359	:	: :	685	:	: :	: :	800	1,400	8	197	100	:
CO-OPERATIVE	of Share as per trough	tunomk IstiqsO Congress	च व	52,238	6,877	489	12,415	8,846	100	3	7,673	1.193	5,166	18,127	1,328	1,420	7,991	8,032	5,043	2 202	13,364	10,101	1,289	1,722	216	1,804	4.196	8,227
30-01	hares in Co-op, leSociety	No. of Scottisl		2,500	409	200	450	1,100	120	2	1,000	260	1,650	1,000	340	510	1606	2002	300	126	1,050	220	250	350	100	230	1.050	840
	lembers per s Report.	No. of M as J Congress		2.541	704	847	24	1,092	150	63	908	268	1,732	1,140	367	661	1 696	580	335	180	1,062	909	400	430	82	268	1.186	_
SCOTTISH		NAME OF SOCIETY.	+-	Alva and Branches	Alva B	Auchterarder			Ardrossan	_		-			Bushy	_		Bonnyhridge			Broxburn		-	Burnbank	_	-	*Bellshill and Mossend	
	ber.	wnX		- 31	ο .	4 13	9	L- 0	ဆင	15,	=3	2 2	7	13.	11	18	5 6	32	22	33 2	£ 65	93	27	88	8	31	25 25	25

3858	86-	∓ \$7 :	4 4 8 4	45	46	47	49	23	51			 	200	57	2 0	8	61	62	3	# 15°	99	29	8 8	32	71	22	25	* 10	92	77	202	2 8	8 2	5 6	32	8
74.7 51.6 67.2	7 S S S S S S S S S S S S S S S S S S S	929	57.8	49.5	73.6	6.0 5	28.6	47.0	9.86		2.03	69.1	75.3	6.98	9.02	99.	24.7	33.6	74.5	200	78.1	74.0	600	20.00	60.4	35.7	63.7	9 6	31.0	67.5	99	0.00	0 45 0 45 0 45	77.7	67.0	43.2
11,198 2,427 8,452	19,790 8 112	16 372	9.970 076.6	11,090	5,744	3,040	4,458	15,056	9,043	10,473	6997.7	3.577	20,594	70,900	6,043	3,575	1,668	3,264	1,940	133,098	98,587	15,152	66, 469	19,841	12,050	4,300	0,700	1455	5.572	4,843	8,866	628,01	1,557	48.849	4.360	3,564
8,371 1,254 5,688	13,711	10,748	1,203	5,480	4,231	17,809	2.613	7,089	3,495	5,065	2,845	2.474	15,518	61,667	0,000	2,751	280	1,098	1,447	80.003	77,082	11,216	60,080	14.352	7,282	1,537	4,311	788	1.728	3,269	5,857	0,015	*, 1003 1003	37.985	2,925	1,542
353 412	824	688	222	327	153	873	7.5	317	888	8;	G %	3 29	339	1,676	808	16	14	£	27 og	803	2,519	540	1 705	461	90,	8	200	200	143	100	321	20 20	72	556	50	47
888	1,819	627	92	988	201	202	189	180	110	440	000	3 2	1,323	4,230	203	335	68	œ	8 8	1.794	3,000	353	010	1,195	619	Z :	5 5	0 5	130	301	275	707	ţ.	120	110	- 62
1,108 725	2,908	1,912	235	908	365	0 247	980	763	575	1,149	986	278	1,423	9,487	200	38	. 67	36	174	11.075	11,061	2,13	122	2,197	1,394	195	202	200	569	327	238	42T	2 6	189	364	159
6,417 1,203 4,218	9,006	7,526	918	3,922	3,512	1,080	2,030	5,824	2,722	3,880	1,711	1.985	12,433	46,274	4,708	2,417	160	1,011	1,155	61 405	60,493	8,189	9,783	10.499	4,569	1,152	3,538	0,002	186	2,541	4,723	6,161	3,430	36.951	23.302	1,257
1,012 102 1,097	106	12,445	88 12	86	887	251	197	8	595	677	47	30.5	883	2,204	650	46	တ	27	15	10 486	14,650	12,305	141	102,22	4,489	13	367	820	354	1,226	814	63	20 00	4 004	1001	15
388	86.15 80.51 80.51 80.51	200 200 200 200 200 200 200 200 200 200	125	220	140	20 00	000	300	154	250	988	940	530	1,950	9 G	150	99	100	105	1 200	2,200	260	96	1,1	008	285	250	270	3 2	180	187	202	22.5	1221	188	110
314	2,087	3,515	081 86	1.665	713	258	0,007	: :	1,146	880	3,000	122	5.857	2,306	187	:57	286	211		212	30,130	3,348	3,868	408	7.161	10	1,114	3,131	500	1.259	328	99	:	10 211	12,011	846
3,576 88 258	7,856	30,114	824	717	1,852	1961	1,257	2,871	2,648	4,352	6,209	35	2.768	11,184	Ŧ.	3,0,5	303	130	325	1,105	4.680	16,347	2,255	21,332	1.935	1,793	069	2 286	162	561	1,966	5,426	1,213	0.00	100,0	200
318 100	888	000,	125	300	140	20 E	000	200	152	250	300	802	530	1,950	818	2220	99	901	130	163	2,200	260	96	1,774	300	300	250	270	38	98	187	670	250	96	190	10
8 8 8 8 8	249	2,146 536	8.3	240	183	88	96	348	217	198	743	245	979	1,932	# S	25.0	3 3	3	124	982	2,450	280	638	1,500 0,57 0,57	282	200	240	552	36	192	315	779	210	1 0 40	1,040 17.0	182
	Camelon	Coatbridge	Chapelton	Clarkston	Cambusbarron	Coaltown of Wemyss	Crofthead	Chinbernauld	Coalsnaughton	Clackmannan	Cowdenbeath		Carronbridge	Cowlairs	Cambuslang	Carrick Provident	Campbellown	Chreston	Cupar		Dunfermline		Dalkeith	Dumbarton	Denny and Duniyace	Dalry	Dalmellington	Dalmair	Deanston	Donglas Fark	Dykehead and Shotts	Dumfries and Maxweltown	Duntocher and Hardgate	Douglas Provident	Eastern Glasgow	East Wemyss

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ntage of sea from esale to urchases.	Ретен Ритера Мрој	9.00	0.50	202	57.8	87.9	111	25.8	100.1	26.4	76-2	71.5	90-5	23.5	80.5	2.72	2 6	94:1	9.83	93 53	61-6	48.0	13.5	# SG	2.6.2	125	2.14	0.10	0.05	0.00	0.70	100
ted Total ess than hown in se Report.	Estina Parchas Parchas Pales Relected	अ	663	1.12	1,662	2,370	4,192	2,146	1,043	47.916	83.291	9,166	15,876	4 166	42,724	20,834	1,100	9 895	8.590	6,510	19,624	9,520	2,668	2,67	2,544	8,679	14,628	19,544	13,462	2,244	2017	09,730
	Total.	વ્ય	8,186 8,05 7,05 7,05 7,05 7,05 7,05 7,05 7,05 7	654	953	668	2,983	1,563	FI7	12,321	95.394	6.530	14 332	2967	25,748	32,049	19 406	9.481	5.036	3,174	12,089	4,571	1,953	1,744	747	1,098	6,041	6,450	6 214	1,967	2,000	1,183
ESALE S	Furni- tare.	क्	:	e 2	88	:	96	41	1	27 OF	1 064	283	487	119	581	955	8 5	700	313	45	500	130	31	40	:	95	150	453	19	67	181	200
Purchased from Wholesale Society.	Boots.	અ	115	:8	6.	:	160	:	::	672	1.195	420	2992	:	1,317	2,046	200	200	696	144	911	400	145	129		41	8	475	153	33	219	125
SED FRO	Drap'ry	अ	25	10	203	12	221	105	287	1,304	1 140	1,130	2.333	157	4,670	3,591	143	7,02	806	25	2,441	679	195	1	10	310	763	1,999	523	177	406	300
Риксия	Grocery. Drap'ry	अ	3,046	322 565	718	887	2,521	1,420	476	10,013	10,635	4 903	10.796	691	19,180	25,457	1,043	9,418	4 168	1.906	8,597	3,103	1,591	1,574	737	C47	4,932	4,320	5,234	1,460	3,047	6,674
t of Loan tal in leSociety	nnounA iqaO sessionW	3	<u>.</u>	===	# 3S	27	403	166	6	5,178	2000	6006	100	8847	3,429	200	9	700	996	446	93	300	22	258	16	16	48	89	4,425	855	225	493
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hares in h Co-op. leSociety.	No. of S Scottisi		136	80.5	6.5	5 6	18	158	120	200	1,250	206	000	110	1.370	1,100	100	1,200	200	190	000	176	100	40	909	150	950	900	480	100	100	300
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	NAME OF SOCIETY.		Edinburgh Roperle, Leith	Elgin	Earlston	Edelivale	Falstand	Fens. Anchterarder	Friockheim	Galston	Grahamston and Bainsford	Grangemouth	Greenook Industrial	Creenock, East	Galashiols Waverlov	Greenock Central	Glespin	Galashiels Store Co	Gallatown	Gilbertneld	Glenbolk	Glendowen	Gnawdbridge	Glonback	Galashiela Coal Co.	Greenstra	Haddinglon	Hamilton	Hurlford	Howwood	Hurlet and Nitshill	Hillwood
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31.5 0 1.5	86.	48.6 74.9		61.9	350	81.3	27.8	91.9	60.7	74.9	62.4	57.6	2.00	62.8	62.7	38.8	25.5	50.0	500	61.4	72.8	77.7	4.76	50.4	49.7	70.7	0 00	74.1	35.0	900	7.62	99	38.7	0.69	75.9	0.17	26.5	0.00
95,848 9,292 1,292	7,160	1,388		10,008	9,866	14,872	63,502	3,285	159.956	13,228	30,822	8,799	17,696	2,778	4,529	2,608	17,491	180,8	4,024	47.114	17,310	11,224	200,0	2,589	10,090	14,738	6,100	80.215	8,483	5,415	5,420	20,70 20,04	12,859	14,358	1,567	3,461	2,004	16,494
21,248 6,664	5,782	1,121	381	408,90	7.654	11,691	49,431	3,022	071,1	9.917	19,236	5,070	19,636	1,746	2,844	2,176	12,651	1,708	2, 20 2, 20	28,935	12,617	8,725	3,300	1.305	5,023	10,334	3,541	59.463	3,050	3,375	1,285	9,103	4,171	9,911	1,190	6,037	4,630	13,674
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ss, being ss than town in Report.	Estimate Purchase 20°/° le Sales sl Congress	8,838	1 645	18,818	12,431	12,837	21,502	34,920	7,893	25,865	8,962	4,726	10,327	4.412	4,076	5,049	14 148	27,501	61,129	105 916	6,690	8.215	92,381	14,062	787.8	5,732
CIETY.	Total.	£ 605	1,527	16,411	9,855	600,4	14,076	25.55 20.55	1,724	18,847	5,185	3,074	7,892	2,162	111	2,684	1,961	20,970	42,171	27,727	00,000	8.859	66,787	10,564	7 100	8008
Purchased prom Wholesale Society.	Farbi- tare.	a,E.	601	2000	283	<u> </u>	441	25 25 26 27	112	3	2 28	165	219	38	6	128	676	88	1,150	2/2	1,20	32	1,906	182	277	17.6
и Wногл	Boots.	48	139	741	283	2	766	202,	195	900	828	250	347	88	:	171	440	198	2,082	202	19	2	3,043	531	176	200
SED FRO	Drap'ry	48	225	2.300	888	# 2º	2,600	2,50 2,00 2,00 2,00 2,00 2,00 2,00 2,00	485	2,408	695	888	208	9	:	413	170	26	7,615	1,348	000	26.0	11,479	1,686	1100	2002
Ривсил	Grocery. Drap'ry	4,095	1,054	18,174	8,756	413	10,260	6.776	932	15,016	4,154	2,276	7,098	2,017	102	9, -	9,417	20,045	81,324	0,030	2,10	9,600	50,359	7,865	2,010	0200
taoI lost tal in leSociet		383 283	. 111	2.187	340	88	7,415	1,799	174	100	218	887	692	77	C7	187	0 469	2,963	19,011	0.00	100	494	4,507	74	1880	3
Capital olesale lety.	dw ai	£ 170	100	667	9	670	750	500	100	92	212	105	988	102	148	120	490	000	1,600	200	36	200	878,8	210	020	7
as per	AmomA Capital Resignoo	e4 8€	0.40	949		000	4,583	1,754	:	2,363	:88	623	885	:008	:	:	5 698	9,138	:	45.070	1 498	1	88,287	2,554	0000	
19q sv	tanoma IstiqaD Cangress	1,588	545	4.365	2,271	121'1	10,703	8,778	2,795	4,917	741	899	736	397	1,416	1,054	968 6	2,381	36,315	10,000	706	1.999	8,205	8,420	1 187	2000
lisres in 10.00 d leSociet	No. of S Scottish Wholesa	170	001	667	40	9	250	500	100	1,000	212	140	960	140	200	22	490	9	1,600	200	960	800	3,000	2002	920	1
lembers per s Report.		239	801	283	443	450	182	1,557	250	1,031	282	154	88	213	228	15	403	1,038	1,659	9 0110	910	818	8,091	367	920	1
	NAME OF SOCIETY.	Milngavle	Millport	Musselburgh and Fisherrow		*Methil	Newmilns	Newtonshaw	Newtonshaw Industrial	Norton Park	+Niddrie	Newton Mearns	Newton	New Cumpock	Ochilvale	Overtown	Portobello	Palsley Equitable	Penleuik	Port Glasgow	Parkhand	Pollokshaws	Perth	Peebles Durident	Prestonnene	Diefer
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 | 9.9 | 65.9 |
| 51,305 | 1,378 | 6,569 | 20,919 | 5.890 | 65,600 | 12,000 | 7,775 | 2,088 | 5,457
 | 10,401 | 16 96 | 11.040 | 16,520
 | 13,677

 | 5,299 | 4,933
 | 69,055 | 19,204 | 7,366 | 14,228 | 3,520 | 2,843 | 17,355 | 8,977 | 50,004 | 4.668 | 10,500 | 10,559
 | 74,588 | 198 | 88,529 | 15,030 | 5,335 | 11,019
 | 6,400 | 4,235 384 |
| 34,806 | 968 | 4,357 | 17,538 | 9,995 | 44.781 | 7,559 | 5,588 | 1,119 | 3,917
 | 4,302 | 10,809 | 9.564 | 12,155
 | 12,447

 | 4,095 | 2,560
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e 090 | 009.6 | 6,110 | 7,760 | 1,889 | 1,816 | 8,525 | 1,128 | 11,478 | 1,050 | 5,989 | 8,213
 | 40,398 | 1,001 | 90,870 | 5,589 | 2,316 | 6,444
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| 18,898 | 136 | 88 | 595 | 080,80 | 1.554 | 2,634 | 5,465 | 10 | 27
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 | 3,589 | 669
 | 1,828 | 16,037 | 6,939 | 1,665 | 7,570 | 1 010 | 816 | 200 | 3,146 | 609 | 1.136 | 1,215
 | 6,535 | 2,885 | 444 | 5,668 | 2,130 | 3,889
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| 1,275 | 25 | 162 | 1,079 | 100,6 | 3.500 | 308 | 162 | 76 | 180
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 | Vale of Leven | West Wemys | Westbarns | West Caluel | Wanlockhead | West Benhar
 | WisbawWick and Pultenevtown | Tot |
| | 1,275 1,200 31,48 1,200 18,898 26,954 4,827 1,650 1,375 34,806 51,305 678 | 1,275 | 1,275 | 1,275 1,200 31,548 1,500 18,888 26,954 4,827 1,650 1,375 34,806 51,905 67,805 1,275 34,806 51,905 67,805 1,275 34,806 51,905 67,905 1,275 34,806 51,905 67,905 1,275 34,806 51,905 67,905 1,275 34,806 51,905 67,905 1,275 34,806 51,905 67,905 1,275 34,806 51,905 67,905 1,275 34,806 51,905 67,905 1,275 34,806 51,905 1,275 34,806 51,905 1,275 34,806 51,905 1,275 34,806 51,905 1,275 34,806 51,905 1,275 34,806 51,905 1,275 34,806 51,905 34,807 | 1,275 1,200 31,48 1,200 18,88 1,200 18,88 1,200 18,88 1,200 18,88 1,200 1,215 1,200 2,003 3,481 1,200 1,215 1,200 2,003 3,481 1,200 1,215 1,200 2,003 1,200 2,003 1,200 2,003 1,200 2,003 1,200 2,003 1,200 | 1,275 1,200 31,458 1,200 18,898 4,837 1,650 1,355 34,906 51,907 5,809 4,837 1,550 1,375 34,906 51,907 5,809 4,837 5,809 4,837 5,809 4,837 5,809 4,837 5,809 1,375 3,809 4,837 5,809 4,837 5,809 1,375 3,809 3,809 | 1,275 1,200 31,548 1,500 18,888 4,827 1,650 1,375 34,806 51,906 51,807 51,800 51,807 51,800 51,807 51,800 51,807 51,800 51,807 51,800 51,807 5 | 1,275 1,200 31,548 1,500 18,888 4,827 1,650 1,355 34,806 51,907 5,788 1,297 1,500 2,008 3,481 400 1,309 4,683 1,294 816 300 300 300 300 300 3,481 400 1,309 4,083 1,294 816 3,289 4,874 816 3,289 4,174 6,189 1,578 4,174 6,180 1,578 4,174 6,180 1,578 4,174 6,180 1,578 4,174 6,180 1,578 | 1,275 1,200 31,458 1,200 18,898 4,827 1,550 1,355 34,906 51,906 51,906 51,906 51,906 51,906 51,906 51,906
51,906 5 | 1,275 1,200 31,548 1,500 18,888 2,6954 4,827 1,650 1,375 34,806 51,906 51,907 8,600 1,512 1,500 1,512 1,500 1,512 1,500 1,512 1,512 1,512 | 1,275 1,200 31,48 1,000 18,88 4,827 1,650 1,375 34,806 51,906 51,907 51,800 51,486 51,907 51,800 51,807 51,800 51,807 51,800 51,807 51,800 51,807 51, | 1,275 1,200 31,48 1,200 18,88 4,827 1,650 1,355 34,966 51,906 51, | 1,275 1,200 31,548 1,000 18,886 26,954 4,827 1,650 1,375 34,806 51,906 51,788 4,827 1,500 1,378 4,827 1,500 4,837 4,827 1,500 4,837 4,827 1,500 1,512 5,198 3,890 5,903 1,903 3,848 1,294 3,900 1,512 5,198 3,900 1,512 3,900
3,900 3,900 3,900 3,900 3,900 3,900 3,900 3,900 3,900 | 1,275 1,200 31,418 2.7 1,200 1,848 26,934 4,827 1,650 1,375 34,906 5,119 1,200 3,481 400 1,899 4,683 1,234 816 920 6,935 1,241 816 920 6,935 1,278 34,906 5,178 477 6,935 1,578 477 6,178 1,578 479 1,578 477 6,178 1,578 479 1,578 <t< td=""><td>1,275 1,300 31,418 250 18 4,827 1,650 1,375 34,906 51,918 6,120 1,875 1,650 1,375 34,906 51,918 4,674 1,650 1,375 34,906 51,906 51,906 4,187 1,050 1,437 34,606 51,906 51,906 51,906 51,906 51,906 51,906 51,906 4,187 4,187 6,120</td><td>1,275 1,200 31,548 2.50 1,888 26,354 4,827 1,650 1,975 34,906 61,936</td><td>1,275 1,200 31,448 250 1,890 4,887 1,549 1,650 1,836 6,936 1,937 34,906 51,906 51,906 3,481 400 1,899 4,683 1,234 816 920 6,936 1,234 816 6,936 6,193 1,778 477 6,936 1,578 477 6,778 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 6,193 477 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 900 1,578 900</td><td>1,275 1,200 31,448 26,934 4,827 1,650 1,375 34,906 51,906 3,481 400 1,899 4,687 1,244 1,650 1,375 34,906 51,906 51,906 51,906 3,481 400 1,899 4,683 1,244 816 20 6,935 1,578 477 678 1,578 479 679 1,578 479 679 1,578 479 1,578 479 679 1,578 479 1,578 479 1,578 479 1,578 479 1,578 479 479 479 679 1,578 479</td><td>1,275 1,200 31,448 1,200 1,888 4,887 1,650 1,875 34,806 61,906</td><td>1,275 1,200 31,448 </td><td>1,275 1,200 31,448 250 1,890 4,887 1,244 1,650 1,375 34,906 5,148 200 1,890 4,887 1,244 1,650 1,375 34,906 5,178 4,877 1,650 1,378 4,774 6,935 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,789 1,578 477 1,578 478 6,789 1,578 478 700 1,578 478 700 80 1,578 478 6,580 6,590 6,580 1,580</td><td>1,275 1,200 31,448 1,200 1,888 4,887 1,650 1,875 34,806 61,936</td><td>1,275 1,200
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 61,936 61,936 | 1,275 1,200 31,448 250 1,890 4,887 1,549 1,650 1,836 6,936 1,937 34,906 51,906 51,906 3,481 400 1,899 4,683 1,234 816 920 6,936 1,234 816 6,936 6,193 1,778 477 6,936 1,578 477 6,778 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 6,193 477 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 477 6,193 1,578 900 1,578 900 | 1,275 1,200 31,448 26,934 4,827 1,650 1,375 34,906 51,906 3,481 400 1,899 4,687 1,244 1,650 1,375 34,906 51,906 51,906 51,906 3,481 400 1,899 4,683 1,244 816 20 6,935 1,578 477 678 1,578 479 679 1,578 479 679 1,578 479 1,578 479 679 1,578 479 1,578 479 1,578 479 1,578 479 1,578 479 479 479 679 1,578 479 | 1,275 1,200 31,448 1,200 1,888 4,887 1,650 1,875 34,806 61,906 | 1,275 1,200 31,448 | 1,275 1,200 31,448 250 1,890 4,887 1,244 1,650 1,375 34,906 5,148 200 1,890 4,887 1,244 1,650 1,375 34,906 5,178 4,877 1,650 1,378 4,774 6,935 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,786 1,578 477 6,789 1,578 477 1,578 478 6,789 1,578 478 700 1,578 478 700 80 1,578 478 6,580 6,590 6,580 1,580 | 1,275 1,200 31,448 1,200 1,888 4,887 1,650 1,875 34,806 61,936 | 1,275 1,200 31,448 | 1,275 1,200 31,448 | 1,275 1,200 31,448 250 1,890 4,887 1,244 1,650 1,375 34,906 5,148 200 1,899 4,683 1,244 1,650 1,375 34,906 5,178 4,774 6,035 1,578 477 6,035 1,578 477 6,035 1,578 477 6,035 1,578 477 6,035 1,578 477 6,035 1,578 477 6,035 1,578 477 6,035 1,578 477 6,035 1,578 477 779 900 1,578 300 4,357 6,590 6,035 1,580 1 | 1,275 1,200 31,448 | 1,275 1,200 31,448 2.50 1,888 4,887 1,650 1,875 34,806 51,906 | 1,272 1,000 11,546 1.1 1.200 11,546 1.4 1.200 11,546 1.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2
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SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY LIMITED.

SOCIETIES NON-MEMBERS, BUT WHO HAVE PURCHASED FROM THE WHOLESALE DURING 1892.

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nadi sa ni nwo	Estimat Porchase 20 % le Sales sb Congress	अ	249,504	1,580	20102	18,098	58,112	3,666	18,148	2,200	202	123,948	180,920	3,756	3,521	1,902	20,221	966,9	6,668	2,098	13,968	12,436	1,512	1.320	6,712	20,512	42,104	5,528	817,427
	Total.	3	1,785	67	53	66	208	383	1,862	186	29	10,260	10,962	23 (140	139	1,495	28	200	9	265	260	191	282	19	594	83	826	81,435
Purchased from Wholesale Society.	Furni- ture.	- FE	130	:	18	5		:	33	4	:	294	25		20	-	52	:	:	:	:	22	:	13	တ	-	::	:	631
ж Wиод	Boots.	4	250	:	:	:	570	:	:	:	:	63	172	:	:	:	:	:	:	:	:	:	::	:	:	::	:	:	1,064
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of Loan as per Report,	Amount Capital Congress	3	:	126	200	:	1.909		168	1,500		:	:	200	240	:	:	:	:	:	:	1,316	:	:	:	127	:	891	7,090
of Share as per Report.	annoma IstiqaO Congress	ભ	27,098	213	024,2	1 995	3,63,4	829	7,548	230	162	14,002	6,248	808	838	453	4,996	959	3,904	109	2,828	2,291	504	201	1,117	11,973	22,584	268	146,570
na res in 1 Co-op. 2 Society	No. of Si Scottish Nholessi		:	:	:	:	: :		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
190	No. of M as p Congress		11,563	286	3,112	3 5	1.169	150	1,018	217	38	3,916	6,248	187	147	87	1,092	395	626	152	1,257	808	146	35	418	1,283	2.326	820	87,032
	NAME OF SOCIETY.		Aberdeen Northern	Auchterarder Baking	Arbroath Friendly Coal	111	Old Vict. & Baking Setv	٥:	Carnonstie	Equitable	Dunning	Eastern Dundee	Edinburgh Civil Service	East Port Saving, Forfar	Frenchie	", Меж	Kirriemuir	Kirkcaldy	Baking	Muthill	Montrose Baking and Trading	Oakbank		Ricearton	Strathisla	United Association, Brechin	Westport Association, Arbroath	Wost Townend, Forfar	Total
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LIMITED.
SOCIETY
WHOLESALE
CO-OPERATIVE
SCOTTISH

SOCIETIES WHICH HAVE MADE NO PURCHASES FROM THE WHOLESALE DURING 1892.

sale to rechases.	Total P	•	c	_	_	_	_	-			_		_	_	_	_		_	_	_		_			_		_	ī		
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ed Total	Estimat Parchas			_								_	_			_				_	_	_	_				-		15	
PURCHASED FROM WHOLESALE SOCIETY.	Total.	3	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
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ом Мио	Boots.	વક	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	i	
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of Loan as per s Report,	trmomA IstiqaO Seergress	3	000	:	:	:	:	446	:	:	:	:	248	:	908	:	:	:	291	1,016	:	:	441	1,153	:	:	:	:	5,595	gress R
as per	tnnomA IstiqsO seergnoO	#	836	1,520	1,384	200	668	867	908	875	246	248	2,138	419	2,490	799	535	412	215	470	2,754	484	451	206	305	441	456	195	20,071	+ Coi
nares in Oo-op, leSociety.	Scottisl		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
190	M io, of M sa I Congress		794	374	273	75	277	246	228	112	370	91	695	1,179	125	1,028	875	705	185	287	85	170	430	831	283	133	350	40	10,274	
	NAME OF SOCIETY.		Alrdrie Bread	Auchinheath	Burntisland Bread	p		Carronhall and Kinnaird	Carronshore Baking		aking	Darngavil	Dysart	Dundee Coal Supply	rt Elphinstone)	Forfar Coal	Free Trade Saving	Victoria Coal	West Port	Street, Forfar			Larkhall Victualling	Northern Association, Forfar	Newburgh Bread		Rutherglen Victualling & Baking	Springfield, Polton	Total	
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SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY LIMITED.

FEDERATED SOCIETIES.

Zumber.

NAME OF SOCIETY. Amount of Loan Name of Society Name of So	ring 1,876 6 9,999 9,944 9,948 9,949 9											
1,870 1,989 19,989 11,	1.670 1.689 1.589 1.69				-	C4	90	4	10	9	t-	
Congress Report	1,870 1,881 10,583 15,415 190 10,882 10,0057 10,882 10,0057 10,882 10,0057 10,882 10,005 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,893 10,901 10,993 10,993 10,	lo agat mori sa ot alas	Ретсеп Ритсрая Мроје		87.0	9.86	24.0	13-2	9.0	91-9	8.98	70.4
Congress Report Congress R	Siming Size es, being nown in	Purchas 20 °/ ₀ ld 5ales sl	લ્ન	14,455	87,593	43,151	6,120	15,476	108,823	6,280	281,897	
1,234 1,325 1,4445 1,326 1,326 1,4445 1,326 1,4445 1,326 1,4445 1,326 1,4445 1,326 1,4445 1,326 1,4445 1,326 1,4445 1,326 1,326 1,4445 1,326 1	1.87 1.98 1.15	SCIETY.	Total.	લ્ફ	12,585	37,102	10,871	608	88	100,057	2,315	163,322
1,234 1,135 1,1445 1,156 1,1	1.87 1.98 1.99	ESALE SO	Furoi-	Ⴗ	œ	2,328	279	15	10	310	គ	2,866
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1,234 1,535 1,54	1,000 1,00	PURCITA	Grocery.	બ	12,570	663	110	753	47	99,612	2,298	116,048
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BY EDWARD PORRITT.

"Our territory is broad, and our people few in numbers. People of all nations shall be permitted to come to our land without let or hindrance."



OR nearly a century this was the sentiment which governed the policy of the United States towards immigration. It was only in 1875 that the first Act of Congress was passed for the restriction of immigration, and this was intended to exclude only immigrants of an undesirable and obnoxious kind. Hitherto America had welcomed all comers, and all Federal legislation up to this time had been with a view to attracting

immigration. In 1819, and again in 1847 and in 1882, Congress passed laws dealing with the vessels in which immigrants were carried across the Atlantic. The country wanted immigration, and it was the desire of Congress to make the coming of the immigrants as safe and as comfortable as possible. This was the intention of all these laws; but especially of that of 1882, which was passed to meet the new conditions in the immigrant passenger trade due to

the substitution of steamers for sailing vessels.

In the Act of 1882 Congress showed its eagerness to take some oversight of the new comers to America before they reached the port of debarkation. The Act was put through the Lower House at Washington by Mr. Gunther, a Congressman from Wisconsin, who had arrived in New York as an immigrant only sixteen years prior to that time. His speeches on the bill showed that he was not of that more recently-developed class of immigrants who, having come to America and done well, desire to set up a wall round the country to keep out new comers. In 1881, the year previous to the passing of this Act, 669,431 immigrants had landed in America, and an even larger number was expected in 1882. "The countries of Europe," said Mr. Gunther, in his speech in Congress in behalf of the bill of 1882, "look upon this immigration with jealous eyes. It is the marrow bone that leaves them. It is not to be presumed that the law-making powers of these countries will exert themselves to any great extent in favour of the people. On the contrary, they look

upon the privations which the emigrants have to undergo with a sort of grim satisfaction. But we, the representatives of the American people, who receive the benefits of this immigration—a people which is ever ready to stand by those who need our help, always willing to correct all abuses of human beings—should not now hesitate to pass a law which is so urgently required." Other speeches in the same vein were made in support of the bill, which was the last passed by Congress in the spirit expressed in the speech of the Congressman from Wisconsin. This Act was approved by Congress on the 2nd of August, 1882; and on the next day approval was given to another Act, which was the first ever passed with a view to sifting and restricting immigration from Europe, and not aimed exclusively at those who were vicious or criminal, as was the Act of 1875.

In any review of the immigration laws and policy of the United States, it is well to deal first with those laws which are aimed at the Chinese, and afterwards with those which are intended as a check on immigration from Europe. Each of these movements makes an interesting chapter in the economic history of the United States. Up to ten or fifteen years ago America gave a cordial welcome to all comers, and had been almost effusive in her invitation to the people of China to make their homes within her borders.

To understand the attitude of the Federal Government towards Chinese immigration, and the drastic legislation which has been passed since 1882, it is necessary to go back to the Burlingame Treaty of 1868, in which the effusive invitation to Chinamen was given. The treaty was negotiated in behalf of the United States by Messrs, W. H. Seward and Anson Burlingame, supplementary to a treaty which had been in existence between the United States and China since 1858. In the fifth article of the Burlingame Treaty it was declared that the "United States of America and the Emperor of China cordially recognised the inherent and inalienable rights of man to change his home and allegiance, and also the mutual advantage of the free migration and emigration of their citizens and subjects respectively from one country to the other for purposes of curiosity, of trade, or as permanent residents." In the next article it was set out that "citizens of the United States visiting or residing in China shall enjoy the same privileges. immunities, or exceptions in respect to travel or residence as may be there enjoyed by the citizens or subjects of the most favoured nation, and, reciprocally, Chinese subjects visiting or residing in the United States shall enjoy the same privileges, immunities, and exceptions in respect to travel or residence as may there be enjoyed by the citizens or subjects of the most favoured nations." This treaty, with its most favoured nation privileges and its further

promise that "Chinese subjects shall enjoy all privileges of the public education institutions under control of the Government of the United States," is in singular contrast with the series of Federal legislative enactments against the Chinese, commencing with the Act of 1882 and culminating in the now notorious Geary Act of 1892, the operation of which has caused so much controversy and

legal and diplomatic turmoil within the present year.

About the time the Burlingame Treaty was proclaimed, and for some years later, there was work in abundance for the Chinese labourers in the development of California and the territories on the slopes of the Pacific. In response to the Spread Eagle invitation contained in the treaty, Chinamen literally swarmed into the country. They made the railways, drained the tule lands, worked the mines of California and of the neighbouring territories, and for a time were so useful that the only apprehension was that they would not continue to come in sufficient numbers. The Emperor of China, with full faith in the Burlingame Treaty, favoured the emigration, and as was stated in 1880 by his Commissioners, when the United States were seeking to take back some of the privileges granted in 1868, "when other powers were exceedingly urgent in their need for Chinese labour and desired this Government to allow its subjects to go of their own free will, this Government, because those other powers treated the Chinese labourers harshly, and not with the kindness shown them by the United States, could not do otherwise than take this difference into consideration." In 1850, when California was admitted to the Union, the Chinaman was given a place in the procession in San Francisco in honour of that event. In 1869, when the negotiators of the Burlingame Treaty were on their way back from China, they were publicly entertained at San Francisco, as an acknowledgment of their services.

The Chinamen had been coming to the country for years before the treaty was negotiated; but the increased numbers in which they came after 1868 soon led to a revolt on the part of the white labourers on the Pacific Coast, and a violent agitation was commenced for the recalling of the invitation which had been extended to them in the Burlingame Treaty. The State Legislature of California early in the agitation passed several laws against the Chinamen, and the agitation reached such a point that in 1877 a Committee of Congress went from Washington to California to investigate the subject. Shortly before this time a representative committee of the labour organisations in San Francisco had issued an appeal to the working men and women of the United States to side with them in the conflict with the Chinese labourers. In this appeal it was declared that "the competition of Mongolian labourers is inevitably destructive, and will be certain to force the labouring

American down in habits and expenses of life to the level of the half barbarian." "In the struggle between the coolie and free white labour," continued this appeal, "the latter is heavily handicapped. The coolie brings neither wife nor family with him, consequently he finds no difficulty in underbidding the Caucasian worker, who maintains his family in a decent civilised manner, and has been taught to believe that honourable toil is worthy of something more than a mere subsistence. His five thousand years' training to wretched frugality in competition with his five hundred million fellow Mongolians has taught him how to live upon the least possible amount of air and food." It was further alleged by the San Francisco labour organisations that the Chinese "underbid white men in the labour market, purchase little or no American products or manufactures, live squalidly crowded together, constantly engendering disease, and, unlike white immigrants, they do not come to make homes with us, and help to build up the country, but come without wives and children, and do not and cannot assimilate with the Caucasian race."

This appeal epitomises the case of the white labourers against the Chinese. The statements and opinions it expressed were practically those adopted by the Congressional Committee which went to California in 1877. In its report to Congress this Committee declared that it had become painfully evident that the Pacific Coast must in time either become American or Mongolian, and that "the Chinese have advantages which put them far in advance in the race for possession. They can subsist where the American would starve; they can work for wages which would not furnish the barest

necessaries of life for an American."

It was not denied that Chinamen were good workers; even the labour organisations did not raise this cry. Their complaint was that it was impossible for white men to compete with them, and that the Chinaman made neither a good neighbour nor a good citizen. "As labourers upon public works," wrote the late Senator Morton, who was of the Congressional Committee which went to the Pacific Coast in 1877, "they were entirely reliable; they worked more hours than white men, were not given to strikes, and never undertook any combinations to control the price of labour." Even the allegation of the labour organisations that the Chinaman was not a good citizen was frequently challenged. The Chinaman had no vote, and consequently no help from the politician; but he had some friends, and among them was Joaquim Miller, the poet, who had been a journalist and a judge in Grant County, Oregon, during the time of the Chinese invasion of the Pacific Coast. In a letter written in February, 1879, Mr. Miller stated that during his official residence in Oregon, he had never seen a drunken Chinaman, a Chinese

beggar, or a lazy Chinaman. "The Creator of us all," wrote Mr. Miller, "opened the Golden Gate to the whole wide world. Let no man attempt to shut it in the face of his fellow men." But the upshot of the agitation on the Pacific Coast was that in 1882 the Golden Gate was shut, and has since been kept shut in what would

strike most people as a harsh if not a brutal manner.

Before anything could be done in this direction, however, it was necessary that the Burlingame Treaty should be abrogated, or at least so much of it as contained the effusive invitation to Chinese immigrants to settle in America. To this end Messrs. Angell, Swift, and Trescott were sent to Pekin in 1881 to negotiate a new treaty. Their task was not an easy one, as the Chinese Government was not readily disposed to give up the favoured nation privileges of the treaty of 1868. The American Commissioners pointed out that the great immigration from China which had followed the Burlingame Treaty had subjected the Government of the United States to very grave embarrassments, both from its immense volume and from the fact that in several respects it differed from the immigration from other countries. "Of late years," pleaded the American Commissioners, "the immigration has concentrated itself in cities and come into direct competition with native labourers, making their struggle for livelihood a hard one, and disabling them by their exclusion from accustomed work to discharge those social and political duties which the Government of the United States expects from every one of its citizens. This competition engenders popular discontent, and raises questions which, if left unsettled, may disturb the friendly relations of the two countries. The Commissioners of China will, we are sure, understand how grave a problem it would be for solution by their own Government if one hundred thousand foreign labourers were in a body introduced into the capital, or into any great city of the Empire, to bring their new and strange manners and habits, and take the places of the same number of the native Chinese, whose ability to discharge their duties as subjects by contributing their taxes and fulfilling their other liabilities was in a great measure dependent upon their capacity to maintain themselves and their families by their daily work.

To all this and to the other arguments of the American Commissioners, including the one that only a certain number of Chinese ports were open to Americans, the Chinese Commissioners replied by recalling the invitation extended to Chinamen to immigrate into America contained in the Burlingame Treaty, and by pointing to the part which Chinamen had taken in developing California and the adjoining territories. "In the many years of Chinese immigration to California," urged the representatives of the Emperor, "a hundred lines of enterprise have arisen, and commercial activity has developed

to an immense extent. The Chinese have given a large amount of their labour to your people, and the benefits of that labour to your country have certainly not been few; but now, because the Chinese do good work for small remuneration, the rabble are making complaints. Since the amount paid the labourer is small, the employer is able to save more, and hence the benefit still inures to the citizen of the United States."

It was undoubtedly true, as the Chinese Commissioners pointed out, that Chinamen in California worked for small wages; and this was just the argument of the labour organisations against their presence there, and it was in obedience to the popular outcry, based upon this argument, that the Commissioners were at Pekin to negotiate for a new treaty. There was much further parleying, but the American Commissioners finally carried their point, and the treaty was concluded on November 17th, which has been the basis of all subsequent legislation dealing with the Chinese in America.

The first article of the treaty of 1880 set out that "whenever in the opinion of the Government of the United States the coming of Chinese labourers to the United States or their residence therein affects or threatens to affect the interests of that country, or to endanger the good order of the said country or of any locality within the territory thereof, the Government of China agrees that the Government of the United States may regulate, limit, or suspend such coming or residence, but may not absolutely prohibit it. The limitation or suspension shall be reasonable, and shall apply only to Chinese who may go to the United States as labourers, other classes not being included in the limitation. Legislation taken in regard to Chinese will be of such a character only as is necessary to enforce the regulation or suspension of immigration, and immigrants shall not be subject to personal maltreatment or abuse."

Even before the American Commissioners went to Pekin to negotiate the 1880 treaty, Congress had passed an Act restricting immigration from China; but the Supreme Court at Washington, which decides the constitutionality of all laws, State and Federal, had declared it invalid, owing to its contravention of the Burlingame Treaty. The Pekin Treaty was proclaimed in the United States in October, 1881, and in the ensuing Session of Congress an Act was passed prohibiting the Chinese immigration for a period of twenty years. This Act, however, was vetoed by President Arthur. He accepted it as an expression of the opinion of Congress that the coming of Chinese labourers and their residence in the United States endangered good order throughout the country; but in his message to the Senate the President pointed out that the Act altogether exceeded the concession China had made in 1880, when it was agreed that the United States might "regulate, limit, or suspend the

coming of Chinese labourers," but that "it should not absolutely prohibit it," and that "the limit or suspension should be reasonable." The President's message was marked by consideration for the rights of Chinese under the treaties of 1868 and 1880, and contained a noteworthy tribute to the work of the Chinese immigrants on the Pacific Coast. "No one," wrote President Arthur, "can say that the country has not profited by their work. They were largely instrumental in constructing the railways which connect the Atlantic with the Pacific. The States of the Pacific slopes are full of evidences of their industry. Enterprises profitable alike to the capitalist and to the labourer of Caucasian origin would have been dormant but for them. A time has now come when it is supposed they are not needed, and when it is thought by Congress and by those most acquainted with the subject that it is best to try to get along without them. may, however, be other sections of the country where this species of labour may be advantageously employed without interfering with the labours of our own race. In making the proposed experiment it may be the part of wisdom as well as of good faith to fix the length

of the experimental period with reference to this fact."

President Arthur's suggestion was accepted by Congress, and the Act was so altered as to provide for the exclusion of Chinese labourers for a period of ten years. This measure, however, did not work at all satisfactorily, and it was greatly added to and amended by another Act passed in July, 1884. Under this amended Act Chinese immigration was suspended for a period of ten years, and Chinese other than labourers who desired to visit America had to obtain permission of and be identified by the Chinese Government and receive a certificate from that Government. If the intending visitor were a merchant from China, the certificate had to set out "the nature, character, and estimated value of the business carried on by him prior to and at the time of his application to his Government for a certificate." If the applicant desired to travel for curiosity, it had to be stated in the certificate whether he intended to pass through or travel within the United States, together with his financial standing at home. All these certificates had to be vised by the diplomatic representative of the United States in the country in which they were issued, or by the consular representative of the United States at the port or place from which the holders of the certificates were about to embark, and the diplomatic or consular representative was charged with the duty of examining into the truth of the statements set forth in the certificates. The measure provided for heavy penalties against masters of vessels who violated its provisions, and for the issue of certificates by collectors of customs to those natives of China already in the United States who desired to visit their native country and return to America.

certificates were to set out the individual, family, and tribal names of the Chinamen to whom they were granted, their ages, occupations and where followed, the last place of residence, physical marks or peculiarities, and all facts necessary for the identification of each and all such Chinese labourers.

The Act of 1884, exacting as were its provisions, failed to satisfy the popular demand for the exclusion of the Chinese, and in September, 1888, during the last year of Mr. Cleveland's 1885-89 Administration, another Act was passed going beyond the Act of 1882, which President Arthur vetoed, and prohibiting Chinese immigration altogether. The Act of 1888 was to apply to all persons of Chinese race, and set out that the words "Chinese labourers," whenever used, should be construed to mean "both skilled and unskilled labourers and Chinese employed in mining." This Act made it unlawful for "any Chinese person, whether a subject of China or of any other power, to enter the United States, except he were a Chinese official, a teacher, a student, a merchant, or a traveller for pleasure or curiosity." It was also provided that no Chinese labourer in the United States should be permitted, after having left, to return, unless he had a "lawful wife, child, or parent in the United States, or property therein of the value of a thousand dollars, or debts of a like amount due to him and pending settlement." "The marriage to such wife," it was provided, "must have taken place at least one year prior to the application of the labourer for permission to return to the United States, and must have been followed by continuous cohabitation of the parties as man and wife." With a view to simplifying the working of this drastic Exclusion Act, it was provided that Chinese certificate holders must not land except at the ports of San Francisco, Portland (Oregon), Boston, New York, New Orleans, Port Townsend, or such other port as might be designated by the Secretary of the Treasury. Ordinary immigrants are landed at twenty-four ports. Among the other clauses of the Act of 1888 was one which provided that in case of a vessel having Chinamen on board coming on shore as a wreck the Chinamen were to be taken away within three days.

The provisions of the Acts of 1884 and 1888 were all carried out with great stringency, but notwithstanding this there grew up a feeling on the Pacific Coast that further legislation was necessary to prevent Chinamen smuggling themselves into the United States across the Canadian border, and to prevent the misuse of certificates issued under the provisions of the Exclusion Acts. Accordingly in May, 1892, in the last year of Mr. Harrison's Presidency, the Geary or the Registration Act was passed. It continued all the existing laws against the Chinese for another period of ten years, and contained new regulations applicable to all Chinamen lawfully in the

There were at this time, it was estimated, some 107,000 Chinamen in America, and under the provisions of the Geary Act all Chinamen, except capitalists, merchants, and other employers of labour, were compelled to appear in person at the office of the Federal collector of internal revenue in their neighbourhood and register, "the certificates of which registration shall be evidence of their right to remain in the country." The Treasury instructions for carrying out the Geary Act as originally drawn up called upon each Chinaman to lodge his photograph at the office where he was registered; but this provision was abandoned before May 5th, 1893, the date when the Act went fully into force. Failure to register rendered the Chinaman liable to imprisonment, and forcible deportation to China at the end of the The Registration Act caused a great outcry, especially in the Eastern States, where the feeling against Chinamen was never quite so strong as it was on the Pacific Coast. Only a few people were disposed to question the wisdom of restricting immigration from China; but there was a very strong feeling that the Act of 1892 was totally at variance with the provisions of the Pekin Treaty of 1880. This treaty, it will be remembered, while giving the United States Government the right "to limit, regulate, or suspend" Chinese immigration, stipulated that "if Chinese labourers or Chinese of any other class now either permanently or temporarily residing in. the United States meet with ill-treatment at the hands of any other persons, the Government of the United States will exert all its power to devise measures for their protection and to secure to them the same rights, privileges, immunities, and exemptions as may be enjoyed by the citizens or subjects of the most favoured nation, and to which they are entitled by treaty."

Here and there a few Chinamen complied with the Geary Law; but the overwhelming majority of them, acting on the advice of the Chinese organisation in San Francisco, known as the Six Companies, failed to register before the 5th of May. As the Federal authorities learned that the Chinamen had determined upon testing the constitutionality of the new law, no immediate general attempt was made to deal with those who had not complied with its provisions. In New York, where there is a large Chinese colony, three Chinamen who had failed to register were arrested by the United States Marshal in order that the constitutionality of the law might be tested by the Supreme Court at Washington. The case was remitted from the Federal Court of the Southern district of New York to the Supreme Court, and on May 15th, 1893, the Supreme Court

pronounced in favour of the validity of the Geary Act.

Five out of the eight judges who were on the bench at the time concurred in the decision; the other three judges dissented. Mr.

Justice Gray delivered the judgment of the Court. In this it was stated that it was one of the fundamental principles of the law of nations that every independent nation had the inherent right to keep aliens out of its territory, and to order them out of its territory. As to the alleged conflict between the Geary Law and the treaties existing between the United States and China, the Court held that if Congress made a law inconsistent with a treaty, it might give a foreign nation the right to complain, and to take such action as it might deem fit for its own interests; but the duties of the Courts of the United States were clear, and they must recognise the force of the law.

The three dissenting judges held that the law was unconstitutional. Chief Justice Fuller entertained no doubt that while the Federal Government was invested, so far as foreign countries were concerned. with all the powers necessary to the maintenance of its absolute independence and security, it could not in virtue of a supposed inherent sovereignty absolutely deal with persons lawfully and peacefully within its dominion. "The Act before the Court," he continued, "was not an Act to abrogate or repeal a treaty, nor to expel Chinamen lawfully here, and no such intent could be imputed Its object was to prescribe a method of registration, and the deportation by way of punishment was in his view an unusual punishment not authorised by the Constitution." Mr. Justice Brewer argued that if the Geary Act were upheld there was no guarantee that a similar treatment might not be accorded to other classes of the population of the United States than the Chinese. Mr. Justice Field took the same view. "As men having our common humanity," he said, in reference to the Chinese labourers, "they are protected by all the guarantees of the Constitution. To hold that they are subject to any different law or are less protected in any particular is, in my judgment, against the teachings of our history, the practice of our Government, and the language of our Constitution.

After the constitutionality of the law had been put beyond question by the judgment of the Supreme Court at Washington, further proceedings were taken in the Federal Court, in New York, in order to determine how the provisions of the Act were to be carried out. It was then discovered that while the United States Marshals and other Federal officers were authorised to arrest Chinamen who were without registration certificates, Congress had made no provision for the cost of deporting the defaulting Chinamen to their own country. Consequently, the three Chinamen who had been arrested in New York were at once liberated, and the Geary Act had to remain in abeyance pending the action of Congress either in providing large funds for its administration or in repealing the law.

As was stated at the outset, it was not until 1875 that the first United States law was passed with a view to excluding any class of immigrants. Prior to that time the Federal Government had asked no questions whatever as to the present condition, character, or antecedents of the immigrants arriving at its ports. All corners had been welcome. In March, 1875, however, Congress passed an Act excluding women imported for an immoral purpose, and all persons who had been convicted of felonious crimes, and whose sentences had been remitted on condition of their emigration. In this Act, as in subsequent Acts, Congress was careful to make an exception in favour of persons who had been sentenced for political offences, or who had been convicted of crimes arising out of political offences. That part of the Act dealing with women of an undesirable class was aimed mainly against those coming to the Pacific Coast from China—at the wretched camp followers of the great army of Chinese immigrants which was settling itself in California and in the neighbouring territories as the result of the Burlingame Treaty. The labour organisations had no voice in the demand for the Act of 1875 as they had in the demand for the exclusion of the Chinese, and for the series of Acts directed at immigration from Europe, which

has been passed since 1882.

Organised labour first turned its attention to the restriction of immigration in 1882. In that year Congress was dealing with the law applying to vessels in which immigrants are carried, and also with the question of pauper immigration, and was generally overhauling the system of receiving immigrants at the various United States ports. The first of the measures dealt with steamship owners, and greatly increased their responsibilities towards the passengers in the steerage. The second Act established a new system for the reception of immigrants. To meet the expenses of this new arrangement it was proposed by Congress to fix a head tax of fifty cents, to be paid by the shipowners, the proceeds of which were to be used in paying the expenses attendant upon the superintendence of the landing of immigrants, and in relieving such immigrants as were in distress. At this juncture what was then known as the Independent Labour Party first made the suggestion in regard to restricting immigration, which has been again and again repeated by various organisations of labour, but which so far has gone unheeded by Congress. In a petition which was presented to the House of Representatives when the bill of 1882 was under discussion, the Independent Labour Party urged that instead of a head tax of fifty cents, intended simply to cover the expenses of carrying out the law, Congress should impose a tax of one hundred dollars on every immigrant. McKinleyism was unheard of at this time. It was six years later before the Mc. Kinley tariff was adopted; but even in

1882 the United States had a high protective tariff, a survival from the war times, and the idea of the Independent Labour Party was that, if employers were to be protected by Federal laws, similar protection ought to be afforded to workmen. They argued that if it was necessary to protect the employer from the product of the cheap labour of England and the other European countries, it was only equitable that the workpeople should be protected from the labourers from Europe, who were crowding into America and competing with them in the mines, the factories, and the workshops. This argument, however, had no effect on Congress, and there is no trace in the Act of 1882 of any response to the appeals which the Labour Party made

in favour of restriction.

The Act of 1882 provided for the levying of a duty of fifty cents for "each and every passenger, not a citizen of the United States, who shall come by steam or sail vessel from any foreign port to any port in the United States." The duty was to be paid to the United States Collector of Customs at the port of entry, and to constitute an immigrant fund, which was to be used under the direction of the Secretary of the Treasury to defray the expenses of regulating immigration, for the care of the immigrants landing in the United States, for the relief of such as were in distress, and for the general expenses of carrying the Act into effect. The Act also gave the Secretary of the Treasury the supervision of the business of immigration, and officers appointed by him or deputed to act for him were empowered to go on board of and through any vessel bringing immigrants, and if on examination there should be found among the passengers "any convict, lunatic, idiot, or other person unable to take care of himself or herself without becoming a public charge they shall report the same in writing to the collector of such port, and such persons shall not be permitted to land." The expenses of the return of such persons as were not permitted to land, the Act provided, "shall be borne by the owners of the vessel in which they came."

After the Act of 1882 had been in force a short time, it was discovered that the immigrant tax told against American vessels trading between the ports of the United States and the ports of Canada and Mexico, placing them at a disadvantage as regards railway competition. Accordingly, on the 14th of June, 1884, a clause to obviate the difficulty was introduced into an "Act to remove certain burdens of the American mercantile marine." It provided that until the section of the Act of 1882 which levied a tax upon immigrants "shall be made applicable to passengers coming to the United States by land carriage, said provision shall not apply to passengers coming by vessels employed exclusively in the trade between ports of the United States and the Dominion of Canada and ports of Mexico."

An Act which closed the gates only against convicts, lunatics, idiots, and persons likely to become a public charge, did not satisfy the labour organisations. A demand was raised for another restrictive measure, one which should be directly in the interests of This time the organisations were somewhat more reasonable and more explicit in their demands. They asked for a measure to prevent American employers from making contracts and bargains with workmen and labourers from Europe before they arrived in the country. This demand came principally from the mining regions of Pennsylvania, although the skilled labourers and factory workpeople of the Eastern cities were also in favour of it, and were not slow to take advantage of the law to this end which was passed by Congress in 1885. The Hungarians, Poles, and Italians are the immigrants who have always been regarded as most undesirable by the labour unions, and against these nationalities, particularly against the Hungarians, there has of recent years been as strong a feeling of opposition as there was against the Chinamen on the Pacific Coast. Nearly all the allegations which were made against the Chinamen in the agitation for their exclusion have been made against the Hungarian labourers, who are numerously employed in the coke and iron regions of Pennsylvania. "They will work for little or nothing, live on fare which a Chinaman would not touch, and will submit to any and every indignity which may be imposed upon them." This is the indictment which Mr. T. V. Powderly, of the Knights of Labour, made against them at the time of the agitation for the Contract Labour Law.

Against the Chinaman it had been urged that he could live cheaper than an American labourer, because he was unencumbered with a wife or family. Against the Hungarian at work on the Pennsylvania coal fields, it was urged that he brought his wife and daughters with him and compelled them to help him in underselling the American labourer. "Before Hungarians were imported," said Mr. Powderly, in the speech from which a quotation has already been made, "the task of an ordinary man was to draw five ovens; but the Hungarian takes the contract for six ovens for less money than the American received for five. He compels his wife or grownup daughters to accompany him to the ovens in a morning, and assist in the work until about noon; after that they may go home." It was objected to the Hungarians, the Poles, and the Italians, that from the nature of things, from their inability to speak English, from their low standard of living, and from their haste to make a little money and leave the country, that they were more likely to become victims to the worst form of the contract system than any other class of immigrants. English and German immigrants occasionally made contracts before they started for America, and

sometimes these immigrants were introduced when strikes or lockouts occurred; but the contract system was at its worst in connection with the lower grade of immigrants, and it was against these imported labourers who came in large numbers that the labour

unions demanded protection.

Between 1885 and 1888, Congress passed three Acts in response to the demands of the labour unions for protection against contract The first Act—that passed on the 26th of February, 1885—made it unlawful "for any person, company, partnership, or corporation, in any manner whatsoever, to prepay transportation, or in any way assist or encourage the importation or migration of any alien or aliens, any foreigner or foreigners, into the United States, its territories, or the District of Columbia, under contract or agreement, parole or special, expressed or implied, made previous to the importation or migration of such alien or aliens, foreigner or foreigners, to perform labour or services of any kind in the United States, its territories, or the District of Columbia." All such contracts were declared to be void, and it was provided that a penalty not exceeding a thousand dollars might be sued for and recovered by the United States, or "by any person who shall first bring his action therefor." A separate suit could be brought for each alien. The Act also made it a misdemeanour for a ship-master to bring contract labourers, punishable by a fine of not more than five thousand dollars for each labourer so brought. The master might also be imprisoned for a term not exceeding six months. The Act provided that foreigners temporarily residing in the United States might engage other foreigners as private secretaries, and as servants or domestics. "Nor shall this Act," continues another clause, "be so construed as to prevent any persons from engaging, under contract or agreement, skilled workmen in foreign countries to perform labour in the United States, in or upon any new industry not at present established in the United States, provided that skilled labourers for that purpose cannot be otherwise obtained; nor shall the provisions of the Act apply to professional actors, artists, lecturers, or singers, nor to persons employed strictly as personal or domestic servants." "Provided also," set out another exempting clause, "that nothing in this Act shall be construed as prohibiting any individual from assisting any member of his family, or any relative or personal friend, to emigrate from any foreign country to the United States."

Two years later, in 1887, another Act of Congress was passed, charging the Secretary of the Treasury at Washington with the duty of carrying out the Contract Labour Act of 1885, and empowering his representatives to go on board incoming vessels, and if they should find "any persons included in the prohibition in

this Act, they shall report the same in writing to the collector of such port and such persons shall not be permitted to land." The Act was passed on the 23rd of February, 1887, and came into

operation in March of the same year.

Under the Act of 1885 it was open to any person to bring an action for its infringement, and the courts soon had cases before them in which it was charged by trade-unionists that immigrants had come to the country in pursuance of contracts made with employers before sailing. In a few cases, at the instance of the courts, the men were sent back to the port from which they had sailed. The number of immigrants so returned, however, was small in comparison with the number who were refused a landing after the Act of 1887 came into force, and it became the custom for contract labour inspectors in the employ of the Federal Government to board all incoming vessels as soon as they got within the limits of New York harbour. Several hours usually elapse between a steamer's entering the harbour and disembarking her passengers, and it became the practice of the inspectors to spend this time mingling with the intermediate and steerage passengers, using all kinds of underhand means to learn whether any of the immigrants were under contract to work for employers in the places to which they were going. If they were, they were refused a landing, and returned by the steamers by which they came. The length to which this system of detecting immigrants who had made contracts was carried was shown by a case which occurred in November, 1892. There was a strike on at a Pittsburgh glass factory, and the unionists expected that men would be brought over from Belgium to take the places of those who were out. Accordingly every incoming steamer from Belgian ports was watched by the contract labour inspectors. One of these officers boarded the Antwerp steamer "Friesland," and went about among the male passengers carefully noting the lips of each for the callosities which are the result of long use of the blow pipe. He picked out a number of men by this sign, and was greatly commended by several of the newspapers in New York for his smartness. picked out were glass blowers, but the inspector was unable to make out a case under the Contract Labour Laws, and after about a week's detention at Ellis Island, where the immigrants arriving at New York are passed by the Federal inspectors, the men were permitted to go about their business.

The stringency with which the Contract Labour Laws have been carried out since 1887 is shown by the fact that in the year ending June 30th, 1892, 932 immigrants coming within the provisions of the laws were sent back to Europe. Of this number, 832 were refused a landing at New York. Almost every steamer which

arrives at New York takes back several of her passengers in consequence of the alertness and zeal with which the contract

labour inspectors carry out their duties.

The Act of 1885, amended as it was by the Act of 1887, still failed to meet the wishes of the advocates of restriction, and in March, 1891, another Act was passed dealing in a more far-reaching manner with contract labourers, and also imposing new restrictions on the methods adopted by steamship companies in stimulating the emigrant passenger trade. One of the clauses of the Act of 1892 provided that "it should be deemed a violation of the Contract Labour Law of 1885 to assist or encourage the importation or migration of any alien by promises of employment, through advertisements printed and published in any foreign country, and any alien coming to this country in consequence of such advertisement shall be treated as coming under a contract as contemplated by such Act." Another important section dealt with the advertising of passenger steamship companies. It provided that "no steamship or transportation company or owners of vessels shall directly or through agents, either by writing, printing, or by oral representation, solicit, invite, or encourage the immigration of any alien into the United States, except by ordinary commercial letters, circulars, advertisements, or oral representations, stating the sailings of their vessels and terms and facilities of transportation therein."

Almost immediately after the Act of 1885 went into force, the Church of the Holy Trinity, New York, gave an invitation to the Rev. E. Walpole Warren, of Lambeth, London, to become its pastor. Mr. Warren accepted the invitation, and had hardly taken up his duties when an action was commenced against the church trustees for an infringement of the Contract Labour Law. The action was at the instance of a Scotch society in New York, and was in retaliation for the sending back to Glasgow of several Scotch immigrants through proceedings under this Act. There was no feeling against Mr. Warren, nor against the trustees of Holy Trinity, the only object of the proceedings against the new rector being to give the public an object lesson in the absurdity of some of the provisions of the law of 1885. The action was long drawn out. extremely harrassing to Mr. Warren and his friends, and ultimately resulted in Holy Trinity Church being mulcted in a fine of one thousand dollars. When the Act of 1891 was before Congress, a clause was introduced to prevent actions of this kind, and the exemptions of the Act of 1885 were extended to "ministers of any religious denomination, persons belonging to any recognised profession, and professors for colleges and seminaries." The Act of 1885 permitted an immigrant's passage money to be paid by "any relative or personal friend." In the amended Act of 1891 this

permission was withdrawn, and persons already in the United States were permitted to pay passage money only for members of

their own family.

In the new Act of 1891 an endeavour was made by Congress to meet the complaint of the New York State Board of Charities, a department somewhat similar to the old Poor Law Board which existed in England before the Local Government Board was established, that there were serious defects in the law of 1882 excluding paupers and idiots, and that notwithstanding that Act, large numbers of chronic and helpless paupers were permitted to land, soon to become a charge upon the State of New York. support of more drastic legislation on these lines, it was stated by the Board of Charities that two-thirds of the paupers in New York State were recruited from a class of immigrants who ought not to be allowed to land. In the new Act it was provided that the following classes of aliens should be excluded—"all idiots, insane persons, paupers, or persons likely to become a public charge, persons suffering from a loathsome or a dangerous contagious disease, persons who have been convicted of a felony, or other infamous crime or misdemeanour, or involving moral turpitude, polygamists, and also any persons whose ticket or passage is paid for with the money of another, or is assisted by others to come, unless it is affirmatively and satisfactorily shown on special inquiry that such person does not belong to one of the foregoing excluded classes, or to the class of contract labourers excluded by the Act of February 26th, 1885."

Another important clause provided that "if any alien become a public charge within one year of his landing from causes existing prior to his landing, his so becoming chargeable shall be deemed to have rendered his coming a violation of the law, and he shall be returned in the same manner as an alien who comes within the

classes defined by the Act."

It was this Act of 1891 which created the Emigration Bureau at Washington as a department under the control of the Secretary of the Treasury. An immigrant who is refused a landing by the medical inspectors, who are of the Federal Marine Hospital Service, or by inspectors under the Contract Labour Laws, or by the ordinary inspectors employed by the Treasury Department, has an appeal from these authorities at the port of arrival to the Superintendent of Immigration at Washington, and from the Superintendent to the Secretary of the Treasury, in whose department all matters connected with immigration are included. Until March, 1893, immigration at the port of New York was superintended by a commissioner and an assistant commissioner. By an Act of Congress, passed in March, the offices of these commissioners were

abolished and a board of four inspectors was constituted, whose duties are to pass on all cases of immigrants detained under the various immigration laws. The favourable report of three of these

inspectors is required to pass a detained immigrant.

By the same Act of Congress, additional duties and responsibilities were thrown upon the steamship companies in regard to the conveyance of immigrants. Formerly the interrogatories put to immigrants were administered after they had landed at Ellis Island. Under the Act of 1893, a new form of passengers' manifest was brought into use, and now all passengers on a westward-bound transatlantic steamer, whether in the saloon, in the intermediate cabin, or in the steerage, are compelled to furnish the representatives of the steamship companies with information necessary to the answering of the following questions:—

1. Full name.

- 2. Age.
- 3. Sex.
- 4. Whether married or single.

5. Calling or occupation.

6. Whether able to read or write.

7. Nationality.

- 8. Last residence.
- 9. Seaport for landing in the United States.

10. Final destination in the United States.

11. Whether having a ticket through to such destination.

12. Whether the immigrant has paid his own passage, or whether it has been paid by some other persons, or by any corporation, society, municipality, or government.

13. Whether in possession of money, and if so whether upwards

of \$30, and how much; if \$30 or less.

- 14. Whether going to join a relative, and if so, what relative, and his name and address.
- 15. Whether ever before in the United States, and if so, when and where.
- 16. Whether ever in prison or almshouse, or supported by charity.

17. Whether a polygamist.

- 18. Whether under contract, expressed or implied, to perform labour in the United States.
- 19. The immigrant's condition of health, mentally and physically, and whether deformed or crippled, and if so, from what cause.

Not only has the work of obtaining answers to these questions been thrown upon the steamship companies, but in the event of their bringing an undesirable immigrant they are liable to a fine of \$20,

besides being compelled to carry the rejected immigrant back to Europe, and maintain him while he is still at New York. manifest containing the particulars thus ascertained is divided into a number of sheets, no one of which may contain more than thirty names. Each sheet is lettered and numbered, and each immigrant receives a check, or tag, bearing the letter of the sheet on which his name appears, and also his individual number. Towards the end of the voyage the ship's officers are supposed to drill the immigrants into groups of thirty. When they are admitted to the Rotunda, at Ellis Island, the immigrants are compelled to arrange themselves into these groups, and pass before the inspectors in this order. group is lettered alphabetically, and one group at a time in the order of lettering is taken by the Ellis Island inspectors. While awaiting their examination the immigrants are detained in railed-off enclosures, and then, in the order of their grouping and numbering, are passed along gangways to the desks of the inspecting officers. These officers have copies of the steamer's manifest before them, and as each immigrant presents himself at the desk, he is called upon to answer a second time the nineteen questions which were put to him by the representatives of the steamship company before he started upon the voyage across the Atlantic. If the answers of the immigrants agree with those sworn to at home, the immigrants are passed on to the contract labour inspectors, and when free of them are allowed to depart. If, however, any discrepancy is found between the answers on the manifest and the verbal ones given at the inspectors' desk the immigrant is marched off to the detention room for further examination. If he can explain the matter to the board of inspectors, he is allowed to leave the island; if he cannot, and the case appears at all a doubtful or an unsatisfactory one, he is returned to the steamer from which he was landed and sent back to Europe.

The inspection by the officers employed under the Contract Labour Laws comes after the interrogatories administered by the ordinary immigrant inspectors, and in this work the inspectors receive considerable help from the various labour unions. Some of the more active of these unions keep up a correspondence with agents abroad, and when they are informed that a party of contract labourers is coming from a particular port, they put the labour inspectors at Ellis Island on the alert, and thus secure the return

of the new comers.

Since 1882 there has hardly been a year in which the immigration in some form has not occupied the attention of the United States Congress. It is still the subject of much public discussion, and there is every likelihood that the Fifty-third Congress—the one elected at the same time that Mr. Cleveland was chosen President—will have the question brought before it during the session of 1894.

Before turning to the present aspect of the immigration question, it may be useful to give some idea of the volume and character of the immigration which the United States has been receiving during the last three-quarters of a century. The figures of the Immigration Department go back to 1830, and the accompanying table shows the number of immigrants arriving by sea during the seven decades between 1820 and 1890:—

From	1820	to	1830	 128,393
,,	1830	to	1840	 539,391
٠,	1840	$_{ m to}$	1850	 1,423,337
,,	1850	to	1860	 2,799,423
,,	1860	to	1870	 1,964,061
,,	1870	to	1880	 2,834,040
,,	1880	to	1890	 5,246,613

As this table shows, one-third of the total immigration since 1820 arrived in the decade between 1880 and 1890. This table does not include arrivals from Mexico and Canada; these do not come under the supervision of the Immigration Department. The falling off in immigration in the 1860 to 1870 decade was due to the War of the Rebellion.

The nationalities of the five-and-a-quarter million immigrants arriving between 1880 and 1890 were as follows:—

Germany	1,452,970	Denmark	88,132
England	657,488	Switzerland	81,988
Ireland	655,482	China	61,711
Sweden and Norway	568,362	Netherlands	53,701
Austria-Hungary	353,719	France	50,464
Italy	307,309	Belgium	20,177
Russia and Poland		All others	480,153
Scotland	149 869		,

The sexes of the immigrants are set out in the accompanying table:—

Country from which Arrived.	Males.	Per cent Males of Total	Females.	Per cent Females of Total.	Total.
Germany	836,290	57.6	616,680	42.4	1,452,970
Ireland	334,229	51 0	321,253	49.0	655,482
England	395,273	61.3	249,407	38.7	644,680
Sweden and Norway	346,862	61.0	221,500	39.0	568,369
Italy	243,923	79.4	63,386	20.6	307,309
Russia, including Poland	174,481	65.8	90,607	34.2	265,088
Austria	142,221	62.9	83,817	37.1	226,038
Hungary	94,243	73.8	33,438	26.2	127,681
Scotland	92,252	61.6	57.617	38.4	149,869

The age at which immigrants arrive is shown by the following figures:—

Country from which Arrived.	Under 15 Years.		From 15 to 40 Years.		Over 40 Years.		Total.
	No.	%	No.	%	No.	%	No.
Germany	386,934	26.6	904,002	$62 \cdot 2$	162,034	11.2	1,452,970
Ireland	92,308	14.1	515,089	78.6	48,085	7.3	655,482
England	151,315	23.5	420,303	$65\ 2$	73,062	11.3	644,680
Sweden and Norway.	104,254	18.3	414,609	73.0	49,499	8.7	568,362
Italy	47,063	15.3	212,475	69.2	47,771	15.5	307,309
Russia	65,427	24.7	174,754	65.9	24,907	9.4	265,088
Austria	50,020	22.1	149,909	$66\ 3$	26,109	11.6	226,038
Scotland	36,192	$24 \cdot 2$	97,819	65.2	15,858	10.6	149,869
Hungary	18,785	14.7	95,635	74.9	13,261	10.4	127,681

From the table showing the sex of the immigrants, it is easy to distinguish the general character of the immigration. The figures for Ireland, England, Germany, Sweden, Norway, and Scotland seem to indicate that families keep together, as the percentage of males and females is almost equal. Those for Hungary and Italy disclose the greatest disparity between the sexes, and help to substantiate the complaint of the labour unions against the Hungarian and Italian labourers that they do not come to the United States to settle, but to make a little money and hurry back to their native land as soon as the object of their stay is accomplished.

The occupations of the immigrants arriving between 1880 and 1890 are given in a general way in the following table:—

Classes of Occupations.	Males.	Females.	Total.
Professional	25,257	1,749	27,006
Skilled	514,552	25,859	540,411
Miscellaneous	1 833,325	245,810	2,079,135
Not stated	73,327	42,830	116,157
Without occupation	759,450	1,724,454	2,483,904
Total	3,205,911	2,040,702	5,246,613

In spite of all the restrictions and regulations which were in force in 1892 with a view to restricting immigration, and especially those intended to prevent the steamship companies from picturing America as El Dorado, the number of immigrants was nearly 600,000. The

exact figures were 579,663, of whom 445,987 were landed at New York, 55,870 at Baltimore, 32,352 at Boston, and 30,703 at Philadelphia.

The occupations of this vast army of new comers were as follows:—

Occupation.	Number.	Occupation.	Number.	
Architects	99	Machinists	2,326	
Brewers	764	Millers	933	
Butchers	2,723	Musicians	754	
Barbers	1,121	Painters	2,079	
Bakers	2,506	Peddlers	2,683	
Blacksmiths	2,508	Plasterers	322	
Bartenders	392	Porters	299	
Bricklayers	1,319	Potters	225	
Carpenters	5,201	Printers	802	
Cabinetmakers	1,844	Saddlers	733	
Confectioners	443	Shoemakers	4,766	
Cigarmakers	2,653	Spinners	629	
Cooks	594	Tailors	9,274	
Coopers	500	Tanners	610	
Farmers	51,630	Tinplate-workers	3	
Florists	264	Tinsmiths	971	
Gardeners	954	Wagon-smiths	524	
Hatters	796	Weavers	2,462	
Ironmoulders	1,001	Waiters	991	
Labourers	171,483	All other occupations	31,381	
Locksmiths	1,565	No occupation, including		
Laundrymen	29	women and children	255,832	
Masons	3,709			
Miners	6,966	Total	579,663	

In a measure, but only imperfectly, the next table shows how this vast immigration—in numbers larger than the population of Manchester—distributed itself over the various States and Territories:—

State and Territories.	Number.	States and Territories.	Number.	
Alabama	409	New Hampshire	1,215	
Alaska	4	North Carolina	331	
Arizona	225	North Dakota	2,525	
Arkansas	442	Nebraska	5,768	
Connecticut	8,642	Nevada	626	
Colorado	2,018	New Jersey	16,665	
California	10,936	New Mexico	340	
Delaware	754	New York	242,668	
District of Columbia	861	Ohio	15,040	
Florida	4,829	Oregon	1,192	
Georgia	390	Oklahoma	6	
Indiana	3,407	Pennsylvania	83,414	
Indian Territory	314	Rhode Island	4,385	
Illinois	46,012	South Carolina	241	
Iowa	8,066	South Dakota	1,666	
Idaho	343	Tennessee	551	
Kentucky	1,046	Texas	3,097	
Kansas	3,552	Utah	611	
Louisiana	4,062	Vermont	759	
Maine	1,111	Virginia	502	
Maryland	7,286	West Virginia	985	
Michigan	14,630	Wisconsin	16,066	
Missouri	5,544	Washington	1,236	
Minnesota	12,740	Wyoming	571	
Mississippi	349			
Montana	1,244	Total	579,663	
Massachusetts	39,987			

In the foregoing table, the destination of 242,668 immigrants is given as New York State, and 39,987 as Massachusetts. It does not follow, however, that anything like these numbers settled in those States. A large proportion of the immigrants booked to New

York and Boston had no definite destination in mind at the time of embarking. The majority of them would soon be compelled to go further afield.

Among the other statistical tables drawn up by the Commissioner of Immigration at Washington is one showing the money brought An immigrant must have at least ten dollars on by immigrants. landing; otherwise he is refused under the provisions of the Act of 1882, excluding paupers and persons likely to become public charges. In the six months ending June 30th, 1892, 152,360 immigrants over twenty years of age arrived at New York, bringing with them a total sum of \$3,060,908, or an average of \$20.09, or a little over £4 each. Those from France brought the largest amount of money, the average being \$55.67 each. For the Swiss immigrants, the average was \$44.01; for Welsh, \$43.06; for German, \$35.42; English, \$26.43; Scotch, \$22.77; and Irish, \$15.64. The Hungarians, Poles, and Italians brought less than any other nationalities. For Poles, the average was \$12.31; Italians, \$11.77; and Hungarians, \$11.42. In New York, the Hungarians, Poles, and Italians are known as the "ten dollar immigrants," and much of the popular outcry for the restriction of immigration is aimed at these nationalities.

As to what becomes of these armies of new comers, arriving in larger numbers every year, it would take years of travel and observation to be able to tell, and even then only in a general way. A writer in the *Observer*, a weekly journal of high standing in New York, in discussing this question in the issue for July 6th, 1893, divides the new comers into three classes—those who do not manage, those who manage too much, and those who manage very

well.

"Of those who do not manage," he writes, "some need not manage because they are managed. Here on the dock is a large squad of Southern Europeans, nearly all men. They have little but muscle. Somehow they discovered that their muscle was in request here. True enough, they have scarcely landed before agents of large corporations or employment bureaus are on the spot to pick up and forward this usable material. Nearly all of it goes to places where large use is to be made of the pick and spade. After they arrive there, they are still managed. They are housed in hovels owned by the company; boarded in the company's boarding houses; supplied out of the company's stores; and for the remainder, manipulated so as to assist in making the biggest dividends for the stock represented, whether by fair means or foul."

Concerning the second class, he continues, "they consist of persons who come here to escape trouble, or to make or retrieve a fortune. As a rule they regard themselves as too good for menial work, and resemble the growing class of native genteel people who

burden the community. Since money is the standard of success among us, it cannot in fairness be said that very many of this class ultimately fail to answer the first purpose required by our people."

The writer admits, however, that the vast bulk of immigrants manage excellently. "They come, indeed," he writes, "from necessity but with good will, a worthy aim, a noble zeal, and large hope. Their coming has been prepared. They know whither they are going, and what they want. They either have tickets to their final destination, or money enough to get there, at the advice of friends or safe counsellors. Nearly all the churches of foreign connections have reliable agents at the ports to assist the immigrant at his arrival. To those who go no further than the cities, the bonds of a common nationality and a common religion furnish aid which is essential. Those who go inland are almost certain to bring up among relatives or friends and acquaintances. The husband goes at once to work with his friend. The elder girl finds domestic service. The larger boys find a place in some factory. For the younger children, places are waiting in the public schools. Generally a church of their own creed and of their own tongue is open to them. They are soon at home. If they have ordinary health they are independent from the start; in fact, they begin at once to accumulate. On a moderate but sufficient scale, the surplus earnings go into furniture and clothing suited to their new condition. surprisingly short time many have a title to a lot, and soon they have a house of their own to be paid for in time. Then comes the saving of money which shall enable them to buy a piece of land, or start a little business to make them independent citizens."

During the autumn of 1892, and in the early part of 1893, the question of immigration became complicated with the question of quarantine. New York had worked itself up into a state of panic over the cholera scare, and in that city and in other parts of the country there grew up a demand that all immigration should be suspended until it was satisfactorily ascertained that cholera was no longer epidemic in any of the continental European cities. For three months or more in the latter part of 1892 all immigration was suspended in consequence of the President's proclamation issued on the 20th of September. A bill for prohibiting immigration for a year was also submitted to Congress. It was supported in the press and on the platform by those writers and speakers who are in favour of still more drastic legislation against immigration than has been passed by Congress since 1882, and who were anxious to turn the panic to account; but nothing came of the bill. A number of other bills were brought forward dealing with the restriction of immigration, one of which proposed an educational test. As, however, this was the last session of the Fifty-second Congress, and

as a new Administration was coming into office in March, 1893, it was deemed well to let the new Congress and the incoming Democratic Administration settle the lines on which any further restrictive measures should be drawn.

The movement for restriction, as it now stands, is largely due to the fact that there still exists among the labour organisations, especially among those in which the foreign element predominates, and to some extent outside these organisations, the feeling which led the Independent Labour Party in 1882 to petition Congress to fix a head tax on immigrants of \$100. This suggested tax was intended to be prohibitive, as prohibitive as many of the duties imposed on manufactured articles by the McKinley tariff. To what extent a large head tax like this would have been absolutely prohibitive may be seen from the figures as to the money in possession of immigrants, quoted from the return of the Federal Superintendent of Immigration. Had such a tax been in force in the last half of 1892, or even had each immigrant been obliged to possess such a sum as a condition of landing, only 5,814 out of the 152,360 immigrants over twenty years of age who arrived at the port of New York could have paid the tax, or complied with the Those who advocate such a tax do so in the apprehension that the United States are in danger of becoming over-populated, and that it is necessary to protect future generations from this evil. Another of their arguments is one which was urged against the Chinamen, that exclusion of a low grade of immigration is absolutely necessary to maintain the existing standard of life and comfort among the American working people.

Other advocates of restriction who are not so outspoken, but who aim at the same end, urge that the test as to what constitutes a person likely to become a public charge, should be made more stringent. The possession of ten dollars at landing has come to be regarded as placing an able-bodied immigrant of good antecedents and character beyond the danger of being rejected as a pauper, or as one likely to become a pauper. It is urged that this sum is too small, but those who raise this objection overlook the fact that, under the law of 1891, an immigrant who becomes a public charge within twelve months of his landing is returned in the same way as an immigrant who is discovered to have come in contravention of

the Contract Labour Law.

The more moderate advocates of restriction admit that America still needs immigration of the right kind, but insist that the immigrants who are offering themselves in such large numbers should be sifted with greater discretion than is possible under any existing laws. The Italians, the Poles, and the Hungarians give those who take this view most concern. They urge, and with some

truth, that but a small proportion of the immigrants belonging to these nationalities ever permanently make their homes in the United States and thus become of the American people, and that their influence on the economic and social conditions of the country is not good. An abortive attempt to deal with this class of immigration was made in the last Congress by a bill which, if passed, would have prohibited the landing of any alien "until he shall have made an affidavit and filed the same with the consul or diplomatic representative of the United States resident at, or nearest to the place of residence of the applicant, that his removal to the United States is with the bona-fide intention of residing there permanently." If this bill had become law, however, it would have been like so many other Acts passed by the United States Congress as well as the State legislatures—altogether inoperative, for it would be utterly impossible to retain any immigrant in the country if he did not desire to stay.

An educational test is also suggested, but not much is likely to come of this suggestion. The Immigrant Department at the United States ports is not the place for the application of a test of this kind. It should be applied at a much later period of the immigrant's connection with the new country—when he seeks naturalisation and is desirous to take upon himself the rights of citizenship in the All that is now necessary for this end is that the United States. applicant for naturalisation should be able to prove before a circuit or a district court that he has resided continuously within the United States for at least five years, and within the State or territory where such court is at the time held one year at least, and that during that time "he has behaved as a man of good moral character, attached to the principles of the Constitution of the United States, and well-disposed to the good order and happiness of the same." All this can be done without the applicant's being able to read the Constitution to whose principles he is attached. It would be no great hardship on immigrants who are anxious to naturalise and exercise the electoral franchise to demand from them that they shall be able to read the language in which the Constitution is written, and when once an educational test of this kind is imposed, the movement for the restriction of immigration will lose much of the support of those people who are apt to confuse the economic and political arguments which are advanced in favour of restriction. There are many Americans who feel that their country has still need of a large immigration, but who side with the restrictive movement because of the disastrous effects which the votes of the illiterate foreign-born citizens have upon municipal and State politics.

Farmington, Connecticut, July, 1893.

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CENTURY AGO! It seems but a short period in the life of a nation, shorter still in the history of the world. Yet how few of us can realise what this England of ours was only a hundred years ago. In the year 1793 France was in the throes of a great Revolution. The year opened with a proposal to appeal to the people with respect to the King, which was rejected. death of the King was decided upon in the Assembly, by ballot. Judgment was pronounced, and on January 21st, 1793, the King, Louis XVI., was beheaded. Soon afterwards, on February 1st, France declared war against England, Spain, and Holland, and on the 11th of the same month, England declared war against France, though Pitt, the English Minister, tried his utmost to avert After the death of the King the Revolutionary Tribunal was established; then the Committee of Public Safety, and soon afterwards Robespierre and his colleagues were invested with dictatorial power and absolute authority. Later, in the same year, the Queen, Marie Antoinette, Philipe Egalité, Madame Roland, and a host of other notable persons, were executed. The Reign of Terror in France lasted from May 31st till July in the following year, 1794, during which period the streets of Paris reeked with the blood of Girondist and Jacobin alike, Marat being assassinated by Charlotte Corday, in July, 1793. In the same year the "little corporal"—Napoleon Bonaparte—first distinguished himself at the siege of Toulon. war which was kindled in that year continued, with some slight intermissions, till the 18th of June, 1815. For twenty-two years the national life of England, as well as of France and other continental nations, was coloured by the events of the French Revolution, the Reign of Terror, the career of Napoleon, and circumstances connected therewith, or arising therefrom.

The war, or rather series of wars, in which we were engaged, from 1793 to 1815 inclusive, operated most disastrously for our people. We had for some time to bear the brunt of the whole contest for the security of the crowned heads of Europe, against France as a Republic, under a despotism, and under the Empire, and we also became involved in a war with America. In these struggles the energies and resources of England were taxed to the utmost. But the wars

told upon the community in different ways. The governing classes grew wealthy by such trade as was carried on, by high prices, by the enormous expenditure of the Government, the prizes of war, and the loans which had to be negotiated to carry on the war, and to subsidise foreign States. On the other hand, the great mass of the people were impoverished, general industry was stagnant, wages were low, work was scarce, and provisions were high in price. Homes were rendered desolate; privation and misery bred discontent, and tumults arose in various places. These were put down as ruthlessly and cruelly as were the armies of Napoleon on the battlefields of Europe. For more than a quarter of a century the people were despoiled by the ravages of war, by the huge debt which was piled up, by burdensome taxation, by the high price of provisions, the 4lb. loaf having risen in price to 1s. 111d. at one period, in consequence of bad harvests and closed ports to the importation of corn, while industry was everywhere crippled. The masses were, indeed, reduced to abject poverty, and every effort was made to reduce them to political servitude. The poor rates were used to keep down wages, and savage penal laws to keep down discontent. The cravings of hunger were heard, but were too often disregarded, until civil strife was imminent, when doles of bread and soup were dispensed.

For some years prior to 1793 there had been peace and industrial progress. The cotton and woollen trades had developed by recent inventions; manufacturers and merchants had prospered by commerce and trade; and many had grown wealthy by new and thriving industries, and by foreign and colonial enterprises. A newer life had begun to manifest itself, and the middle classes were clamouring for a share of political power and social recognition. Attempts were made to improve the representation, to lessen the power of the boroughmongers, and infuse a more just spirit into our criminal code. Some of the more daring reformers welcomed the French Revolution as a means to those ends. But the excesses of that Revolution cooled the ardour of many, while others took advantage of those excesses to still further curtail public liberty in this country. Reform was forgotten, or brushed aside; repressive laws were passed; prosecutions were instituted; Habeas Corpus was suspended; the press was attacked; speakers and even preachers were thrown into prison, and some were transported for harmless remarks. The Court and the Parliament were corrupt, and the judgment seat was perverted to base ends. Juries sometimes had the pluck to give a verdict of not guilty in spite of the judge, and of the temper of the Court and Parliament; but generally they were in sympathy with the ruling sentiment, and lent themselves to the ruling despots of the times. Now and again the eloquent voices of the few were raised in Parliament, and outside of it, in protest against wrong

doing; but they mostly suffered in some way for their temerity. The oppressors have passed away, but the fame of the defenders of liberty remain to us as a precious heritage of those troublous times.

The industrial condition of the masses was worst of all. They had been bereft of the advantages of the old Guild laws and ordinances, and they had lost the protection accorded by law under the Acts of Elizabeth, and some subsequent statutes. But not only had they no protection under those laws, for they were also denied the right of association under the Combination Laws. To these were added the Treason and Sedition Acts, the Corresponding Societies Acts, and Press Laws. Poverty and prosecution were the lot of men who dared to combine. What wonder if incipient revolt and even outrage broke out under such circumstances. The social condition of the people was deplorable; their homes—heaven save the mark!—were dilapidated and filthy; their food was coarse and scanty, and their clothing little else than rags. Education was denied to them, and when they had work their hours of labour were long, and the wages of labour were at starvation rates. And this state of things did not end with the close of the last century, nor with the close of the war in 1815. In many respects the condition of the poor had not much improved up to the year 1840, when elaborate inquiries were instituted into the condition of the population, and of the workers in factories and mines. The work of amelioration was tardy and slow, very But, singularly enough, the first step in a series of Acts was taken in 1793, which have grown into a body of legislation advantageous to the whole people. It is my duty to trace the legislation, under separate heads, from that date to the present time. The space at command will only permit of a very brief summary, but the course of that legislation will be so far indicated that the reader will be able to fill in the outline for himself.

I.—ENABLING LEGISLATION.

THE series of measures comprised in this class are manifold in character, and varying in their nature; they are none the less far-reaching in their effects, and important in their results.

A. FRIENDLY SOCIETIES—1793 to 1893.

The first Act of this group was passed in 1793, the 33 Geo. III., c. 54. It was very properly called "An Act for the Encouragement and Relief of Friendly Societies." The fact is that the germ of the friendly society is to be found in the old Guild system; the relief of

distress, succour and support in illness, and the burial of the dead were integral parts of that system. When the Guild existed no longer methods were found to carry out these objects in another form, though less organised and not so effectual. Legislation was resorted to with the view of restoring, or, as the Act says, "encouraging" a more systematic and permanent form of mutual relief. The Act was amended in 1795, and again in 1803. In 1796 a similar Act was passed by the Irish Parliament; this was amended by the 49 Geo. III., c. 58, in the year 1809, by the House of Commons of the United Kingdom. In the same year the first

Act was again amended—49 Geo. III., c. 125.

In the year 1811 two Acts were passed, one for England and Wales, and one for Scotland, giving protection to members of friendly societies who were engaged in military duty as militiamen. In 1817 the first Savings Bank Act was passed, enabling friendly societies to deposit their funds in such banks. In 1819 an "Act for the further Protection and Encouragement of Friendly Societies, and for preventing frauds and abuses therein," was passed. In 1825 an Act was passed relating to infants and lunatics, protecting their rights as members of friendly societies; and in 1828 one relating to the administration of estates, legacies, and money in savings banks. In the year 1829 the Acts relating to friendly societies were consolidated and amended—10 Geo. IV., c. 56. This Act was amended in 1831-2, and again in 1833, as regards investments, and again in 1834. In 1834 the Building Societies Act was passed, an outgrowth of the former Acts; while in 1840 the Act of 1829 was further amended. In 1846 an Act was passed which exempted friendly societies from the Corresponding Societies Act, and other Acts, and enabled such societies to establish branches, up to which time they were merely local benefit clubs. In this Act was inserted the famous frugal investment clause.

From 1846 those societies were permitted a further development. In 1847–8 a further amendment of the law was effected as regards the investment of funds in the savings banks, Ireland; and in 1849 regimental benefit societies were established by law. In the year 1850 the existing laws were consolidated by the 13 and 14 Vict., c. 115, but it was only a temporary Act. That Act was continued by cap. 65, in 1852. The laws relating to investments were amended in 1853, and, as regards Ireland, in 1854. In the same year (1854) the Act of 1850 was further continued, and amendments were made in the law, by four other Acts, having reference to the militia and

volunteer forces, and some other matters.

In the year 1855 the laws relating to friendly societies were consolidated and amended by the 18 and 19 Vict., c. 63, which Act continued to be the principal Act until they were again consolidated

in 1875. The Act of 1855 was amended in 1858; and again in 1859, as regards seamen. It was further amended as regards members of volunteer corps in 1860; and in the same year by two other Acts, one relating to investments. Further Acts were passed in 1861, two in 1863, and one in 1864. These four Acts had reference to the administration of estates, and volunteers. In the year 1866 the privileges of the Friendly Societies Acts were restored to societies for the assurance of cattle, &c., by 29 and 30 Vict., c. 34; and in 1873 provision was made for members in the Royal Naval Volunteer Force.

In the year 1875 the laws were again consolidated and amended. by the 38 and 39 Vict., c. 60, which is now the principal Act in force. Since 1875 twelve Acts have been passed effecting several amendments in 1876, repealed in 1877; in 1879, repealed; two in 1882, one repealed; in 1883, 1884, 1885, latter repealed; in 1887 and 1888 two, one repealed; and one in 1889. Friendly societies are now governed under fourteen Acts, or portions of Acts, five of which date prior to 1875, relating to investments, policies, assurance, and savings banks; and seven subsequent to that Act. Of the latter three, the Acts of 1877, 1882, and 1888 relate to investments; one, 1883, to nominations; one to summary proceedings, and two amend certain clauses in the Act of 1875. In Session I. of last year, 1893, the writer of this article carried an Act, the 56 and 57 Vict., c. 30, to amend the Friendly Societies Act, 1875, by restoring the rights of arbitration in cases of dispute, under § 22 of the principal Act, which had been over-ridden by a recent decision in the House of Lords. Whatever defects may exist in those Acts they have assisted to develop institutions in our midst such as no other country in the world can boast of. Their operations are on a gigantic scale; their membership is immense, their funds are enormous, and their influence for good is vast and far-reaching. They are self-governed, self-sustained, and mutual-help associations.

B. BUILDING SOCIETIES—1829 TO 1893.

Building societies are an outgrowth of, and an offshoot from, the legislative measures for the encouragement of friendly societies. The first germs of legislative sanction are to be found in the 10 Geo. IV., c. 56 (1829), and the 4 and 5 Wm. IV., c. 40 (1834). But those Acts only gave a negative sanction to this form of self-help, as an object that was not unlawful, and was therefore permissible.

The first Building Societies Act was passed in 1836—the 6 and 7 Wm. IV., c. 32—"An Act for the Regulation of Benefit Building Societies." The preamble recites that such societies had been

established in different parts of the kingdom, principally amongst the industrious classes, for the purchase of small freehold or leasehold property, and that it is expedient to afford encouragement and protection to such societies, &c. The Act then confers the power, and applies the provisions of the two above-mentioned Acts.

Between the years 1836 and 1874 fifteen other Acts were passed, all of which applied to benefit building societies in one or more of their provisions; these had reference to legal proceedings, stamp duties, and other details relating to management, as altered by

legislation subsequently to 1836.

The Acts at present in force are: 6 and 7 Wm. IV., c. 32 (1836). The 33 and 34 Vict., c. 97 (1870), relating to stamp duties. The 37 and 38 Vict., c. 42 (1874), the principal Act now in force, and which repealed the Act of 1836 except in so far as it applies to any society established prior to 1874, and which did not incorporate under the Act of that year. The 38 and 39 Vict., c. 9 (1875), substituting a new clause for § 8. The 38 and 39 Vict., c. 60 (1875), as to registration. The 40 and 41 Vict., c. 63 (1877), as to change of office, actions at law, &c.; and the 47 and 48 Vict., c. 41, as to disputes, &c. (1884).

In the present year (1893) four Bills were introduced to amend the law, all of which were referred to a Select Committee of the House of Commons. The Government Bill was amended and reported to the House, but it was abandoned towards the close of the session by reason of opposition to some of its clauses. The

other three Bills were dropped.

c. Loan societies—1835 to 1893.

The Loan Societies Acts also grew out of Friendly Societies Acts legislation. The first Act was passed in 1835, the 5 and 6 Wm. IV., c. 23. In the following year, 1836, the Act was extended to Ireland, but on a better and surer basis. Then came the Act of 1840-the 3 and 4 Vict., c. 110, "An Act to Amend the Laws relating to Loan Societies"—for one year only. This Act was continued yearly until 1853, when it was continued for three years. It was again extended until the year 1863, when, by the 26 and 27 Vict., c. 56, the Act of 1840 was made perpetual. The Act was slightly amended in 1875, and again in 1888, as to registration, and the transfer to County Councils of the business of Quarter Sessions. Loan societies are the least satisfactory of all the Acts under the head of Enabling Law. But the object was a good one, and in Ireland the legal basis was more sound than in the English statutes. To be of any real service and benefit the law will have to be remodelled entirely.

D. INDUSTRIAL AND PROVIDENT—1850 to 1893.

Co-operative effort preceded legislative sanction and encouragement, and some progress had been made before legal protection was accorded to such efforts. In the Friendly Societies Act, 1850—the 13 and 14 Vict., c. 115—the famous frugal investment clause was introduced, which gave legal sanction to certain forms of co-operative enterprise. This clause gave an impetus to the movement which had already commenced.

In the year 1852 the first Act was passed—the 15 and 16 Vict., c. 31, "An Act to Legalise the Formation of Industrial and Provident Societies" The Act recites the purport of the frugal investment clause in the Act of 1850, and states that many associations for the purposes therein named had been formed. The Act was amended in 1854 by 17 and 18 Vict., c. 25; in 1856 by 19 and 20 Vict., c. 40; and in 1859 by 22 and 23 Vict., c. 53, relating to savings banks. These Acts were repealed in 1862 by the 25 and 26 Vict., c. 87—"An Act to Consolidate and Amend the Laws relating to Industrial and Provident Societies." This Act carried the objects and the means forward to some extent, and advantageously. In 1866 facilities were given for the insurance of cattle and other animals by the 29 and 30 Vict., c. 34, and the Act of 1862 was further amended in 1867 by the 30 and 31 Vict., c. 117, and in 1871 by the 34 and 35 Vict., c. 80, and by the Friendly Societies Act, 1875-the 38 and 39 Vict., c. 60in some of its provisions.

The principal Act in force in 1893 was the 39 and 40 Vict., c. 45— "An Act to Consolidate and Amend the Law relating to Industrial and Provident Societies, 1876." This Act was amended in 1880 by 43 Vict., c. 14, § 8, in so far as the payment of income tax is concerned; in 1883 by the 46 and 47 Vict., c. 47, relating to nominations and cases of intestacy by increasing the amounts from £50 to £100; and in 1884 by the 47 and 48 Vict., c. 43, by the repeal of divers enactments rendered unnecessary by the Summary Jurisdiction Acts, &c. In this session (1893) a Bill to Consolidate the Law relating to Industrial and Provident Societies was introduced by the writer of this article, and was designed to amend the law in several important particulars. That measure has now become law as the 56 and 57 Vict., c. 39. This group of measures has been the most fruitful of good of all the legislation which has grown out of the Friendly Societies Acts. Formerly mining and banking were prohibited; now industrial and provident societies may and do carry on all kinds of industry, and several of them, including banking, most successfully.

E. WORKING MEN'S CLUBS.

Though there may be differences of opinion as to the value of workmen's political and social clubs, there can be no doubt as to the advantages of legal protection being accorded to them. They may be registered under either the Friendly Societies Acts or under the Industrial and Provident Societies Acts, and most of the boná fide clubs are registered. There was a Bill before Parliament this year to compel registration, to which the boná fide clubs offered no serious objection. It was aimed at bogus clubs chiefly. That Bill was referred to a Select Committee, by whom some of the clauses were made more drastic. This evoked opposition, and the Bill was abandoned.

F. SAVINGS BANKS, GOVERNMENT ANNUITIES, ETC.—1797 TO 1893.

THE aids to thrift provided by the various kinds of legislation under these heads show a tendency to expand and increase in several directions. It seems that the idea of instituting banks for small savings originated in Switzerland, the first of its kind being established at Berne, in the year 1787. This bank was for domestic servants only. A similar bank was established at Basle in 1792, this one being open to all comers. In the year 1797 Jeremy Bentham proposed the establishment of a frugality bank in England. In 1799 the Rev. Joseph Smith, of Wendover, Bucks, started a benevolent institution on the savings bank plan, the basis being the same as that of trustee savings banks subsequently started in various parts of the country. In the years 1803-4 Miss Priscilla Wakefield opened a charitable bank at Tottenham, near London. In the year 1810 the Rev. Henry Duncan opened a parish bank at Ruthwell, in Scotland, a similar bank being established in Edinburgh in 1814. The movement spread so rapidly that during the next three years many such banks were started both in England and Scotland.

(1) Trustee Savings Banks, 1817 to 1893.—The first Savings Bank Act was passed in 1817—the 57 George III., c. 130, "An Act to Encourage the Establishment of Banks for Savings in England." In the same year an Act was passed similar in character for Ireland. Those Acts were designed to encourage thrift among the poorer people, facilities for which were afforded for the safety of the deposits both as regards the constitution of the bank, and the security exacted from the treasurer. In the year 1819 "An Act for the Protection of Banks for Savings in Scotland" was passed, 59 Geo. III., c. 62. Amending Acts were passed in 1818, in 1820, and a still more important one in 1824. In the year 1828 the laws were consolidated and amended by 9 Geo. IV., c. 92. Between the years 1828 and 1862 twenty-four other Acts were passed amending

and extending the before-mentioned Acts, including those Acts which afforded facilities to soldiers and sailors for utilising the savings banks at home and abroad. In 1861 the Post-office savings banks were established, and in 1863 the principal Act now in force was passed. Since that date twenty-seven other Acts have been passed. The Acts relating to trustee savings banks are now grouped under the collective title of "The Trustee Savings Banks Acts, 1863 to 1891," three of which were passed in the last Parliament (1887 to 1891), for the better protection of depositors and the security of their savings, but, at the same time, the interest now given is less than it was

prior to that date.

(2) Post-office Savings Banks, 1861 to 1893.—The first Post-office Savings Bank Act really originated out of the opposition of the trustees, managers, and officials, principally the latter, to the proposed reforms suggested by the Government for the better management of trustee banks. That Act, 24 and 25 Vict., c. 14, was intituled "An Act to grant additional facilities for depositing small savings at interest with the security of the Government for due payment thereof." The Act was amended in 1863, and again in 1874; also in 1880, in 1887, and in 1891, in the three later Acts by specific provisions, the other provisions applying to trustee savings banks or to both classes of savings banks generally. The Acts specifically relating to the Post-office savings banks are now grouped under the general or collective title of "The Post-office Savings Banks Acts, 1861 to 1891," and consist of six Acts, besides several others relating to such banks, or the provisions of which apply in some particulars. There are in all no fewer than thirtyseven Acts or portions of Acts still in force relating to savings Of these, four relate to seamen and their wages; two to military, and two to naval savings banks. A system of general inspection is now in force relating to trustee savings banks; the Post-office savings banks are under a central department; the investments are under the control of the National Debt Commissioners in both cases. Facilities are afforded to friendly societies, trade unions, and all similar societies to invest their funds in such banks, but it can scarcely be said that they have hitherto been encouraged to do so.*

^{*} In Session I., 1893, a further Act was passed extending the annual limit from £30 to £50. The Government proposal was £100, but the opposition of the banking interest was such that a compromise was agreed to in order to save the Bill. With the consent of the National Debt Commissioners a clause was also introduced into the Industrial and Provident Societies Act, 1893, to enable such societies to deposit without limit, as in the case of Friendly Societies. See 56 and 57 Vict., c. 39, s. 39.

(3) Government Annuities.—As early as the year 1776 an Act was passed to encourage the granting of life annuities by 17 Geo. III., c. 26, but that Act related to provision out of estates for the wealthier classes. Three or four other Acts of the same character followed, but possibly those measures gave rise to the idea, subsequently elaborated in the 10 Geo. IV, c. 24, in 1829, to afford facilities to the working classes to provide such annuities in connection with the savings banks system. Other Acts relating to annuities were passed in 1832, in 1833, in 1853, in 1864, in 1873, in 1882, and in 1887, all of which Acts are now collectively known under the short title of "The Government Annuities Acts, 1829 to 1887." The object of these Acts is to enable thrifty persons to provide annuities by regular periodical payments of small amounts. The rates are somewhat higher than those of joint-stock companies or industrial insurance societies, and other societies; but there is absolute security, which, after all, is the chief thing. Immeasurable as the advantages of the foregoing legislation have been in promoting thrift among the people, the indirect benefits have scarcely been less, for the legislation enumerated has stimulated private enterprise in the same direction, often with great benefit to the people, but, alas, sometimes also with disastrous failure and gigantic frauds.

G. THE PAWNBROKERS ACTS-1603 TO 1893.

SINGULARLY enough, the earliest pawnbroker of whom we have an authentic account was Northburgh, Bishop of London, 1354, who was in the habit of lending sums of money to the citizens on pledges, at interest. If at the end of the year they were not redeemed the Bishop, preaching at St. Paul's Cross, gave notice that at the end of fourteen days the pledges, if not redeemed, would be sold. Legislation for the regulation of brokers commenced in 1603, with 1 James I., c. 21. Ten other Acts were passed between that date and 1800, when the business of pawnbrokers was regulated by 39 and 40 Geo. III., c. 99. Some dozen other Acts were passed having reference to pawnbroking up to 1872, when the law was consolidated. The object of the Acts was at once enabling and protective; they enabled the poor to obtain small sums on pledges, and they protected the borrower from being charged beyond a certain rate of interest, and provided also for the redemption of the goods. Unfortunately the practice of pawning is much abused.

H. PATENTS, REGISTRATION OF DESIGNS, AND TRADE MARKS, ETC.
THE old system of granting patents was in the nature of a monopoly, the Crown granting the privilege to Court favourites, or for gain. Even when the old monopoly could no longer be left undisturbed the cost of a patent was such as to be prohibitive.

During a period of 217 years from the reign of Queen Elizabeth to the 15th year of Queen Victoria, in 1852, only 14,358 patents were granted. In 1852 the Patent Law Amendment Act was passed, reducing the cost, regulating the modes of payment, and applying one system to the whole of the United Kingdom. The laws were consolidated in 1883 by 46 and 47 Vict., c. 57, covering inventions, designs, and trade marks. That Act was amended in 1884, 1886, and 1888. The cost was greatly reduced, and the modes of payment were made much easier. Those statutes are at once of an enabling and of a protective character, and provision is made for the protection of inventions exhibited at exhibitions, &c.

I. THE COMPANIES ACTS, PARTNERSHIPS, ETC.

The laws relating to companies were in the nature of monopolies in former times. Attempts are often made to use them as such even now. The Companies Acts in force mainly date from 1862, but thirty-six Acts apply, dating from 1767 to 1892. These Acts have been woefully abused, and the public have been defrauded and robbed by promoters and directors, and also by a detestable class called "wreckers." But the Acts have enabled great industrial and commercial enterprises to be undertaken which could not otherwise have been attempted. All kinds of insurance—life, fire, marine, cattle, and other risks—are provided for; railways, canals, ships, and other transit; gigantic manufacturing and trading businesses are carried on, and we seem to be fast drifting into limited companies for everything, to the annihilation of the individual trader and employer. The law alone can protect the public in the case of limited companies.

J. TRADE UNIONS.

All the earlier legislation relating to labour, for nearly six centuries down to the year 1824, was adverse to the workmen. The Law of Conspiracy, 28 Edw. I., c. 10, and subsequent statutes of the same kind; the Statutes of Labourers; the laws relating to sedition, to public assemblies, the Combination Laws, specifically so called; the Corresponding Societies Acts, and various other Acts were all used to prevent all associative efforts by workmen to ameliorate their condition. Singularly enough, those earlier and some later Acts were alleged to be levelled against the restraint of trade, whereas they were really so interpreted and administered as to be used in restraint of liberty, and they, with other laws in force, were employed to shackle trade and prevent working people from associating together to protect their rightful interests, and promote their welfare by mutual aid. The only break in that long series of disabling Acts was in the reign of Queen Elizabeth, when she passed an Act embodying many of the best Guild ordinances which had been more

or less in favour of labour. But these were gradually rendered obsolete or were disregarded, and the provisions were repealed before any attempt was made to give freedom of association to workmen.

The Combination Laws were repealed in 1824-5, that Act being amended and explained by the 22 Vict., c. 34, in 1859. Act passed in favour of trade unions as such was the temporary Act in 1869, the 32 and 33 Vict., c. 61, giving protection to their funds. The Trade Union Act, 34 and 35 Vict., c. 31, was passed in 1871; but even then a restraining Act was also passed in the same session, lest the former Act should give too much power to associations deemed to be dangerous combinations. In the year 1875 the Labour Laws were passed, repealing the provisions of the old Master and Servants Acts, and also the Conspiracy Laws, in so far as they related to trade disputes. In 1876 a useful Act was passed amending the Trade Union Act, the 39 and 40 Vict., c. 22. In 1883 the right of nomination was further provided for in all friendly and other similar societies; and in the present year (1893) the provident funds of trade unions were exempted from income tax, on the same lines and to the same extent as friendly societies, and other societies of a like character, by the 56 Vict., c. 2, introduced and carried by the present writer. The legislation as regards labour and trade unions is both enabling and protective, and it marks the era of progress during the last twenty-five years. A quarter of a century ago trade unions were denounced and tabooed—were even threatened with suppression; to-day they are recognised as a powerful social force.

K. ARBITRATION AND CONCILIATION IN TRADE DISPUTES.

THE first Act in favour of arbitration as a mode of settling disputes was passed in 1603, the 1 James I., c. 10, now 290 years ago. Several other Acts were passed of a like character, or amending former Acts, before the principle was applied to labour disputes. The first Act having reference to labour disputes was passed in 1773, being the first of the "Spitalfields Acts," the 13 Geo. III., c. That Act was amended and extended by subsequent Acts. the year 1800 an Act was passed, 39 and 40 Geo. III., c. 90, extending the principle to the cotton trades. Prior to the year 1824, when the 5 Geo. IV., c. 96, was passed, that being "An Act to Consolidate and Amend the Laws relating to the Arbitration of Disputes between Masters and Workmen," twenty-one Acts were passed, many of which were repealed by the 5 Geo. IV., c. 66, and the others by the later Act of the same year, above quoted. other Acts were passed between that date and 1867, either amending the principal Act, extending its provisions, or applying the principle to certain trades.

In the year 1867 an Act was passed "to establish equitable councils of conciliation to adjust differences between masters and workmen," the 30 and 31 Vict., c. 105; and in 1872 the "Arbitration Act," 35 and 36 Vict., c. 46, was passed. None of those Acts have been really used for the settlement of labour disputes, but the principle has been applied in many cases most successfully. are at present eight Acts, or parts of Acts, on the statute book relating to arbitration in labour disputes, but they are mostly defective, and require to be consolidated and amended. relating to commercial and trading disputes has been admirably consolidated in the Arbitration Act, 1889, the 52 and 53 Vict., c. 49, but the Acts relating to labour disputes are still in a state of chaos. There are provisions in the Friendly Societies Acts, in Building Societies Acts, in Industrial and Provident Societies Acts, and in the Trade Union and other Acts relating to arbitration, so as to prevent litigation, all of which have admirably served their purpose up to the present time. But the arbitration clauses have had to be amended in the present session (1893), because of a decision in the House of Lords which to some extent brought those societies under the Arbitration Act. 1889. This legislation has partaken of the dual character of being enabling and protective at the same time, the effect of which has been most beneficial.

PART II.

PROTECTIVE LEGISLATION.

1. The factory and workshops acts—1802 to 1893.

THE first of this series of Acts was the 42 Geo. III., c. 73, "An Act for the preservation of the health and morals of apprentices and others employed in cotton and other mills, and cotton and other factories," dated June 22nd, 1802. This Act contained provisions relating to sanitation, separate sleeping accommodation for males and females, hours of labour, night work, clothing, inspection, and for instruction in reading, writing, and arithmetic, and instruction on Sundays. The Act was amended in 1819 by 59 Geo. III., c. 66, which provided that no child should be employed in cotton mills under nine years of age, and that no young person under sixteen years should be employed for more than twelve hours per day. It also

provided for regular meal times. The Act was further amended in 1820 by 60 Geo. III., c. 5, as to hours for dinner, and as to employment by night, in cases where mills were destroyed by fire, &c.

In 1825 the preceding Acts were amended and extended by 6 Geo. IV., c. 63, as to the age and hours of working, hours of work on Saturdays, hour and time for breakfast and dinner, no labour during meal times, sanitation, and provision was made for the prosecution of offenders, convictions, and punishments. This Act was amended in 1829 by 10 Geo. IV., c. 51, and by 10 Geo. IV., c. 63, mainly as to legal proceedings under the Acts. In 1831 all the foregoing Acts, except the first one, were repealed by 1 and 2 Wm. IV., c. 39, other provisions being substituted in lieu thereof. This Act was repealed in 1833 by 3 and 4 Wm. IV., c. 103, the provisions being extended to the "United Kingdom." The last-named Act was explained and amended, in 1834, by 4 and 5 Wm. IV., c. 1, workers in silk mills being included in its provisions, children in such mills, under thirteen years of age, being allowed to work ten hours every day, except Sundays. The laws were further amended in 1844 by 7 and 8 Vict., c. 15, by which date the Factory Acts had assumed a definite form, both as to character and administration.

In 1845, by 8 and 9 Vict., c. 29, the provisions of the Factory Acts were extended to "print works," and included women, young persons, and children. This Act was amended in 1846 by 9 and 10 Vict., c. 18, and in the same year by 9 and 10 Vict., c. 40, certain rope works being excluded from the provisions of the Acts. Then came, in 1847, the famous Ten Hours Act, 10 and 11 Vict., c. 29, "An Act to limit the Hours of Labour of Young Persons and Females in Factories." The Act is dated June 8th, 1847. In the same year the law requiring the attendance at school of children employed at print works was amended by 10 and 11 Vict., c. 70. In 1848 certain provisions of the Public Health Act, 11 and 12 Vict., c. 63, were applied to factories. In 1850, by 13 and 14 Vict., c. 54, and in 1853, by 16 and 17 Vict., c. 104, the Acts were further amended, the latter prohibiting night work for children in all mills and factories under the Acts.

In the year 1856 "The Factory Act," 19 and 20 Vict., c. 38, was passed, and in 1863 bleaching and dyeing works were brought under the operation of the Factory Acts by 23 and 24 Vict., c. 78. In 1861, by 24 and 25 Vict., c. 117, lace works were brought under the operation of the Acts. In 1862, by 25 and 26 Vict., c. 8, the employment of women and children engaged in certain processes of bleaching and dyeing during the night was prohibited. In 1863, by 26 and 27 Vict., c. 38, the provisions of the Bleaching and Dyeing Works Acts were extended to finishing processes. In the same year the Bakehouses Regulation Act, 1863, the 26 and 27 Vict., c. 40, and the

Alkali Works Act, 1863, the 26 and 27 Vict., c. 124, were passed. In 1864 "The Factory Acts Extension Act," 27 and 28 Vict., c. 48, and a further amendment of the law relating to bleaching and

dyeing works, 27 and 28 Vict., c. 98, were passed.

In the year 1866 "The Sanitary (England) Act," 29 and 30 Vict., c. 90, and in 1867 "The Public Health (Scotland) Act," 30 and 31 Vict., c. 101, were passed. In the same year "The Factory Acts Extension Act, 1867," the 30 and 31 Vict., c. 103, was passed, and also "The Workshops Regulation Act, 1867," the 30 and 31 Vict., c. 146. By the 31 and 32 Vict., c. 36, "The Alkali Works Act. 1868," the provisions in the former Act, 1863, were amended. In 1870, by 33 and 34 Vict., c. 62, the Factories and Workshops Acts were amended and extended. In 1871 Jewish workers were exempted from penalties for working on Sundays, by 34 and 35 Vict., c. 19; and in the same year certain provisions of the Factory Acts were extended to workers in brickfields by 34 and 35 Vict., c. 104. In 1874 the Alkali Works Acts were amended by 37 and 38 Vict., c. 43; the Factory and Workshops Act, 1874, 37 and 38 Vict., c. 44, greatly extended and improved the provisions formerly in force as to health, education, and otherwise. In 1875 the Public Health Act, 38 and 39 Vict., c. 55, and the Employers and Workmen Act, 38 and 39 Vict., c. 90, were made to apply in some respects; and in 1876 the County Courts Act, 39 and 40 Vict., c. 75, and the Elementary Education Act, 39 and 40 Vict., c. 79, were made to apply in certain of their provisions.

In 1878 "An Act to Consolidate and Amend the Law relating to Factories and Workshops," the 41 and 42 Vict., c. 16, was passed. This is the principal Act now in force. In the same year the Public Health (Ireland) Act, 41 and 42 Vict., c. 52, was made to apply in certain cases. In 1881 the Alkali Works Acts were consolidated and amended by 44 and 45 Vict., c. 37. In 1883 the law was amended as to white lead factories and bakehouses by 46 and 47 Vict., c. 53. Summary proceedings under the Acts were dealt with in 1884 by 47 and 48 Vict., c. 43; holidays in Scotland, in 1888, by 51 and 52 Vict., c. 22; and cotton cloth factories, in 1889, by 52 and 53 Vict., c. 62. The Factories and Workshops Acts were amended in 1891 by the 54 and 55 Vict., c. 75, and in London by Public Health Act, 54 and 55 Vict., c. 76. In 1892 the Alkali Works Act was amended by 55 and 56 Vict., c. 30; and the Shop Hours Act, 55 and 56 Vict., c. 62, was passed. The series of Acts before enumerated are unparalleled in any country in the world for their fulness and completeness, and their beneficent intentions and results.

2. THE MINES REGULATION ACTS—1842 TO 1893. THERE were numerous Acts passed prior to 1842 with respect to the rights to and the property in mines and minerals, both as

regards Royal or Crown rights and the rights of private owners. There were also many Acts for punishing workmen for offences against those rights, and for regulating the transit of coals to London, and the measurement and sale of such coals. one Act was passed for the protection of the miners. An inquiry was instituted into the condition of the mining population in 1840–42 by a Royal Commission. This led to the passing of the 5 and 6 Vict., c. 99, "An Act to Prohibit the Employment of Women and Girls in Mines and Collieries, and to Regulate the Employment of Boys therein," August 10th, 1842. "An Act for the Inspection of Coal Mines in Great Britain," 13 and 14 Vict., c. 100, was passed August 14th, 1850. The law was amended in 1855 by the 18 and 19 Vict., c. 108, and again in 1860 by 23 and 24 Vict., c. 151, both as regards regulation and inspection. In the same year (1860) the Act 23 and 24 Vict., c. 139, relating to the use of gunpowder, was applied to mines; and in 1861 three Acts, 24 and 25 Vict. cc. 96 and 97, relating to offences, and c. 130, relating to the sale and use of gunpowder. In 1862 the law relating to coal mines was amended by 25 and 26 Vict., c. 79; and in 1866, as to foreshores, rights to mines, by 29 and 30 Vict., c. 62, §§ 21 to 25.

In the year 1872 the Acts relating to coal mines were consolidated and amended by 35 and 36 Vict., c. 76, and the law relating to metalliferous mines by 35 and 36 Vict., c. 77. In 1874 metalliferous mines were subjected to rating by 37 and 38 Vict., c. 54. In 1875 three Acts were passed, 38 and 39 Vict., cc. 17, 39, and 55, and in 1878 the 41 and 42 Vict., c. 49. These related to explosives, metalliferous - mines, nuisances, and weights and measures respectively. In 1881 the Stratified Ironstone Mines Act, 44 and 45 Vict., c. 26, and in 1882 the 45 and 46 Vict., c. 3, were passed, both relating to the use of powder, &c. The Summary Jurisdiction Act, 1884, the 47 and 48 Vict., c. 43, applied, and in 1886 the Coal Mines Act was amended by the 49 and 50 Vict., c. 40. In 1887 "An Act to Consolidate with Amendments the Coal Mines Acts, 1872 to 1876, the Stratified Ironstone Mines Act, 1881," 50 and 51 Vict., c. 58, was passed, and another in 1891, the 54 and 55 Vict., c. 47, "An

Act to Amend the Metalliferous Mines Act, 1872."

The whole of the statutory law relating to mines now in force comprise seventeen Acts, of which five deal with "royal mines," four with offences and procedure, one with coal mines, three with metalliferous mines, two with explosives, one with weights and measures, and one with foreshores. Certain provisions in the Stannaries Acts, relating to Devon and Cornwall, also apply. The protection afforded to miners by the Acts specially relating to them are as important as that afforded by the Factory and Workshops Acts to workers in the trades to which they apply, and reflect credit upon the country

enacting them. Neither of the Bills introduced in 1893 were carried, though one, the Miners' Eight Hours Bill, was read a second time.

3. COALWHIPPERS AND BALLAST-HEAVERS,

Of all persons engaged in manual labour one would have thought that coalwhippers and ballast-heavers would have been the last to need protection by law. But for the most part they were hired by contractors, who were either publicans or in league with them. As late as 1852 out of a total of thirty-nine contractors twenty-seven were beerhouse keepers or small tradesmen, so that drinking and "truck" was the rule. Every inducement was held out to drink, and often indirect compulsion was used to do so. Acts regulating the vend of coal in London and the home counties were passed as early as the reign of Queen Anne. Several other Acts were passed in the reigns of Geo. III. and Geo. IV. The 1 and 2 Wm. IV., c. 76, regulated the vend and delivery of coal in London and Westminster and in parts of seven counties. But the first Act to protect the coalwhipper was 1 and 2 Vict., c. 101, August, 1838. Section 12 of that Act provides that the men are to be paid in coin daily, and on board the vessel. Payment at any other place rendered the employer liable to a penalty of £10. In 1843, by 6 and 7 Vict., c. 101, an office for the benefit of coalwhippers was established, under the supervision of a Board of Commissioners. Regulations as to wages, hiring, recovery of wages, and other matters were made, and a fund for their benefit was established. In 1846 the office was transferred to the Board of Trade by 9 and 10 Vict., c. 36, by which it was enacted that no person was to be employed except crews of "colliers," unless such person be registered. The shipmaster was bound to apply at the office for workmen, the rates for unloading being fixed by the statute, whether by individuals or in gangs; if the latter, the mode of apportioning the pay was set forth. But gangs could tender for the job. The men were to be paid on discharge of cargo. The Acts were all temporary in duration, but were renewed year after year, or at periods, until 1856, when the opposition to the Act was so great that further legislation was abandoned. But the coalowners agreed to established an office, and to carry out the regulations generally. The ballast-heavers were placed under the protection of the Trinity House by Prince Albert, after an inquiry into their case. The result of the regulations as regards these two classes of men was to improve their condition, to decrease drunkenness, and ensure more regular work, at better wages, and shorter hours of labour.

4. CHIMNEY SWEEPERS—1789-1893.

The first Act for the protection of chimney sweepers was passed in 1789—28 Geo. III., c. 48, "An Act for the better regulation of

Chimney Sweepers and their Apprentices." In 1834 the 4 and 5 Wm. IV., c. 35, was passed with the same title, but with this addition, "and for the safer construction of chimneys and flues." In the year 1840 another Act was passed, the 3 and 4 Vict., c. 85, by which, from and after July 1st, 1842, no child under sixteen years of age was to be apprenticed to a chimney sweeper, and no child was to be compelled to climb chimneys. All indentures of those previously apprenticed were to cease and be void, if the apprentice was under the age of sixteen years. The terrible sufferings of the climbing chimney boys, their suffocation in the flues, and their treatment by their masters had long engaged the attention of public men, and hence the efforts to mitigate, if they could not cure, the evils of the system. But perhaps the greatest boon was the invention of the sweeper's machine, in 1805, by a man named Smart, who was awarded a medal by the Society of Arts. machine now in use was invented by Joseph Glass, who died in 1868. Neither of the inventors benefited by the invention. Acts relating to chimney construction and other matters were passed in 1844, in 1854, in 1864, and in 1876. In 1893 five Acts, or parts of Acts, were in force relating to chimneys and chimney sweepers. this session (1893) the law relating to the latter was consolidated and amended. In London the matters of chimney construction, sweepers, and fires caused by foul chimneys, are governed by the Metropolis Management Acts, and in the provinces by the Towns and Police Clauses Acts. Perhaps no more beneficial Act was ever passed than the Act of 1840 to prevent the climbing of chimneys by young boys—parish apprentices, orphans, or the children of drunken parents who cared nothing for their children's welfare. Sometimes the poor little climbers were forced up the flues by being progged with iron pins in the end of long sticks, and sometimes by lighted straw or shavings to force them to the top. Some, being suffocated, even died in the flues, and had to be cut out from the outside.

5. Bakers and Bakehouses-1800 to 1893.

Acrs for regulating the sale of bread, &c., date back to the time of Henry III., in the year 1266; but the first Act, apparently, which deals with journeymen bakers was the 39 and 40 Geo. III., c. 18, in the year 1800. This Act regulated Sunday work in the Metropolis. In 1835 the provisions were made general by the 6 and 7 Wm. IV., c. 37, but it did not apply to Scotland. In 1863 the Bakehouses Regulation Acts, 26 and 27 Vict., c. 40, was passed, § 107 of which limited the hours of work. In the year 1878, bakers and bakehouses were brought under the Factory Acts as to employment, cleanliness of the bakehouse, &c. The Public Health Acts also

apply. The condition of bakehouses is not all that could be desired even now, but there is less laxity in administering the law than there was formerly.

6. EARTHENWARE FACTORIES AND BRICKFIELDS-1864 TO 1893.

Workers in earthenware factories and the pottery trades were brought within the scope of the Factory Acts, in 1864, by the 27 and 28 Vict., c. 48. In 1871 workers in brickfields and brickyards were also brought within the provisions of the Acts by 34 and 35 Vict., c. 104. The wretched condition of the women and children working in the brickfields was a matter of public notoriety. The change effected in their condition since that date is marvellous through the operation of those Acts. As late as 1859 and 1860, Wm Burn, a shoemaker, was appointed secretary of the union, as there was no brickmaker sufficiently educated to correspond and keep the accounts.

7. Women and Children employed in agriculture—1867 to 1893.

In the year 1867 was passed the 30 and 31 Vict., c: 130, "An Act for the Regulation of Agricultural Gangs," fixing the age at eight years, below which children were not to be employed. It also regulated the employment of women. In 1873 the age was raised to ten years for children by the 36 and 37 Vict., c. 67. In 1876 ten years of age was made general by the Elementary Education Act, 39 and 40 Vict., c. 79. In 1878 the Factory and Workshops Acts were made to apply in certain cases. The age is now virtually raised to eleven years by the Act of 1891, although its operation is restricted to factories and workshops, and does not apply to workers whose age is fixed by the Elementary Education Act, 1876.

8. EMPLOYMENT OF CHILDREN IN PLACES OF PUBLIC AMUSEMENT— 1879 TO 1893.

The object of this Act is to protect children under fourteen years of age by prohibiting their employment in dangerous performances. Both the employer and the parent or guardian who permits or abets such employment are liable to a penalty not exceeding £10. It also makes the employer liable for injuries up to £20 by way of compensation, and to an indictment for assault in case of injury. In case of dispute as to age the burden of proof rests with the person or persons prosecuted. The recovery of penalties are by the Summary Jurisdiction Acts in England, the Summary Procedure

Act in Scotland, and the Petty Sessions Act in Ireland. Some relaxation as to employment is permitted in certain cases, but only by previous application to the proper authorities. The value of this Act is undeniable.

9. MERCHANT SEAMEN—1729 TO 1893.

Acts for the protection of British seamen, as regards their wages, commenced with the 2 Geo. II., c. 36. Other Acts were passed, and the first-named Act was made perpetual by 2 Geo. III., c. 31, in 1761. Regulations were also made as regards apprentices, one being allowed to a certain tonnage, and as to forfeiture of wages, and wages due in case of death. All previous Acts were consolidated and amended in 1854 by the 17 and 18 Vict., c. 104. In the same year all the earlier Acts were repealed by 17 and 18 Vict., c. 120. The former Act provides in an elaborate manner for engaging seamen, for payment of wages, allotment notes, inspection of provisions, accommodation, medical attendance, and numerous other matters. It also provided for the seaworthiness of the vessel by § 243. the facts disclosed by Mr. Sam. Plimsoll, in the years 1872–74, showed that little had been really done either for the safety of the crew, their accommodation, or their food. Since that date several Acts have been passed with the view of making life on board ship a little more endurable. The writer of these notes passed a Load-Line Act in 1891, and an Act for the survey of provisions in 1892. The life of the sailor is now more endurable than it has ever been, and there is a willingness to extend the provisions of the Acts. Towards the close of last session, 1893, a Bill to consolidate the law was introduced. The Bill consists of 434 pages, and purposes to repeal 43 Acts or parts of Acts. It is the largest Bill ever introduced.

10. Canal Boatmen—1877 to 1893.

Mr. George Smith was practically the author of the Act of 1877, the 40 and 41 Vict., c. 60, the object of which was to provide for the registration and regulation of canal boats used as dwellings. Regulations were made by the Local Government Board in 1878. The Bill was amended in 1881, and again in 1882, an inspector being appointed to see that the Acts were enforced. These Acts have brought the children of canal boatmen under the Education Acts, and have made the boats more endurable, from a sanitary point of view, both for the children, the boatmen, and their wives.

11. THE PASSENGER ACTS—1842 TO 1893.

THESE Acts are designed to ensure both the safety and the comfort of passengers and emigrants, who are not in a position to pay high rates for accommodation and food. The keen competition of

shipping companies necessitate not only careful but generous treatment on board the steamers and vessels to all parts of the world. But fifty years ago it was different. On passenger ships the crews fare tolerably well as to food, but their accommodation is often deplorably deficient. Legislation encouraged reforms, even where it did not initiate them. Competition for passengers and freights has done much more. We now hear less about food, treatment, and accommodation, but more about wages, though the seamen in some instances still complain about the former. The chief agitation of late has been for an increase of the monthly rates of seamen, and better accommodation for sleeping.

12. ACCIDENTS AND PERSONAL INJURIES; COMPENSATION FOR INJURIES; AND EMPLOYERS' LIABILITY FOR PERSONAL INJURIES TO WORKMEN.

(a) Accidents and Injuries.—The object of all legislation under these heads is the prevention of accidents; compensation for injuries is but a subsidiary object. The earliest Act of this series was the 28 Geo. III., c. 57, passed in 1788; amended by 30 Geo. III., c. 36 (1790); by 46 Geo. III., c. 136 (1806); and by 50 Geo. III., c. 48. These Acts regulated the number of persons to be carried on the outside of stage coaches or other carriages, and the conduct of drivers and guards thereon, as to furious driving or racing, to the danger of the passengers. The 1 Geo. IV., c. 4, passed in 1820, made the drivers criminally responsible for accidents occasioned by wilful misconduct. The provisions of these Acts are now embodied in the general Criminal Law. Special provision is also made in sundry Acts, relating to inquiries into the causes of accidents, and of the persons responsible, under the head of Coroner; as to furious driving; as to mines, railways, factories and workshops, merchant shipping, explosives, threshing machines, and insurance, in Scotland.

(b) Compensation for Injuries.—Up to the year 1846 no action at law was maintainable against any person who, by his wrongful act, neglect, or default, caused injury and death to another person. By the 9 and 10 Vict., c. 93, all such persons causing injury and death were made answerable for damages for the injury caused. This Act was amended in 1864 by the 27 and 28 Vict., c. 95, but both Acts were limited to cases "of persons killed by accidents." The operation of the Act was subsequently further limited by a decision in the courts as regards workmen by what is known as the Common Law "doctrine of common employment." So far the object of the

Act was frustrated.

(c) Employers' Liability.—The object of the Employers' Liability Act, 1880, the 43 and 44 Vict., c. 42, was "to extend and regulate the liability of employers to make compensation for personal injuries

suffered by workmen in their service." This Act did not abolish the doctrine of common employment, but it limited its application. Liability was enforced in so far as the accident was caused by negligence, &c., of any person in authority, the employer being held responsible therefor. The sum recoverable as compensation was also limited, but so also was the trial of actions, to a certain extent. The Act never satisfied the workmen because of the power of contracting out of it; and several Bills have been introduced by members of Parliament to amend and extend its operation. year (session of 1893) the Government brought in a measure, which at this date has passed through a Select Committee, by which the provisions of the Act of 1880 are amended and extended, the existing Act itself being repealed. The chief opposition is against the provision which abolishes the right of contracting out of the Act, as virtually given in the Act of 1880. That Bill is put down as one of the two measures to be dealt with in the Autumn Session.

13. THE TRUCK ACTS, PAYMENT OF WAGES, ETC.—1464 TO 1893.

SINGULARLY enough, legislation for the protection of workmen as regards the payment of their wages, dates back more than four and a quarter centuries. The first statute dealing with the matter was 4 Edw. IV., c. 1, by § 2 of which it was enacted that wages were to be paid in money. This was followed by two Acts in the reign of Elizabeth, in 1566 and 1572 respectively, in which payment of wages, and for goods in certain cases, was to be in ready money. There were four Acts in the reign of Anne of a similar character, three in the reign of Geo. I., four in the reign of Geo. II., and two in the reign of Geo. III., prior to the commencement of the present century. These were followed by Acts in 1809, the 49 Geo. III., c. 109; two in 1817, the 57 Geo. III., c. 115, and c. 122; and in 1818 by 58 Geo. III., c. 51. A clause in the Arbitration Act, 1824, the 5 Geo. IV., c. 96, provided that tickets of work were to be delivered in certain cases to ensure proper payment of wages. In 1831 the previous Acts relating to truck and payment of wages were repealed by 1 and 2 Wm. IV., c. 36, and in the same year the 1 and 2 Wm. IV., c. 37, was passed—"An Act to prohibit the Payment, in certain Trades, of Wages in Goods or otherwise than in the current coin of the Realm." This statute is still the principal Act in force.

During the present reign, commencing in 1839, seven other Acts have been passed relating to the payment of wages, stoppages from wages, and similar matters. The principal Act of this series was the 50 and 51 Vict., c. 46, "An Act to amend and extend the Law relating to Truck," passed in 1887. This Act repealed wholly two

of the older Acts, and certain sections in others. The earlier Acts were restricted to the woollen and other textile industries. The provisions were extended from time to time to numerous other trades, all of which were specifically mentioned in the several statutes. In reality the law was only made general in 1887. Perhaps no series of enactments have had more beneficial results than those Acts denominated the "Truck Acts." Without them the workpeople would have been held in a state of social and industrial bondage.

14. TICKETS OF WORK.

APPARENTLY the first legislative attempt to prevent workpeople being defrauded of their rightful earnings by paying less than was legally right was made in 1778–9 by the 19 Geo. III., c. 49. This Act was "to prevent abuses in the payment of wages" in the lace trade. Similar legislation was passed as regards silk weavers. The clause in the Arbitration Act, 1824, the 5 Geo. IV., c 96, before referred to, provided that tickets of work should be given in certain cases. In 1845 two Acts were passed, 8 and 9 Vict., c. 77, respecting tickets of work to be delivered to workers in the hosiery trade, and by c. 128, in the silk trade. In 1891, by 54 and 55 Vict., c. 75, particulars are to be supplied to workers in the cotton trade in cases where payment is by the piece. All the Acts passed from 1831 to the present time are still in force in the trades specified, the object being to prevent workpeople being defrauded of their proper wages.

15. STOPPAGES OF WAGES.

It is an old legal maxim that stoppages are not payments, but this maxim was seldom applied to wages until of late years. The most important Act on this subject is the Hosiery Act, 37 and 38 Vict., c. 48, passed in 1874, which enacts that wages are to be paid net, in the current coin of the realm, without any stoppages whatever, and all contracts to stop wages and for frame rents were declared illegal and void. Deductions for bad work are not illegal, but generally deductions and stoppages are so far regarded as unlawful that the practice is dying out.

16. ATTACHMENT OF WAGES.

ATTACHMENT of wages, in Scottish law "Arrestment of Wages," is wholly abolished by the 33 and 34 Vict., c. 30, passed in 1870. This method of seizing or arresting wages was found to be baneful, and consequently the power of so doing is abolished, in so far as any judge of a Court of Record or inferior court is concerned. The Act is a model of brevity.

17. PREFERENTIAL PAYMENT OF WAGES.

The Bankruptcy Act, 1883, 46 and 47 Vict., c. 52, \S 40, gives preference, after (a) rates and taxes, (b) to wages or salary of clerk or servant, and (c) wages of any labourer or workman, not exceeding £50, in respect of services rendered within four months of the bankruptcy, whether for time or piecework. This practically covers all wages.

18. PAYMENT OF WAGES IN PUBLIC HOUSES.

The payment of wages in or at public houses is wholly prohibited by 46 and 47 Vict., c. 31, passed in 1883. In so far as miners were concerned, payment in public houses was prohibited by the Mines Regulation Acts, 1872. Much earlier it was rendered illegal as regards coalwhippers and ballast-heavers by 1 and 2 Vict., c. 101, in 1837. They were to be paid on board the vessel, under a penalty of £10. The whole of this series of Acts have operated to the advantage of the workmen, both directly and indirectly. All workmen are now usually paid on the job, without delay.

19. Housing the working classes—1851 to 1893.

UP to the year 1851 no distinctive legislation had been inaugurated to improve the condition of the dwellings of the working classes. An elaborate inquiry into the "Sanitary Condition of the Labouring Population" was instituted in 1841–2, the reports as to which were published in 1842–3. The facts disclosed in those reports were so alarming in their character that some efforts were made to improve the sanitary condition of the urban and rural districts, and of the water supply in the towns more particularly. Lord Shaftesbury and Prince Albert were the pioneers in the series of Acts relating to lodging houses and workmen's dwellings. Singularly enough, in this instance legislation commenced for the benefit of the very poorest.

(a) Common Lodging Houses, 1851-93.—In 1851 two Acts were passed, 14 and 15 Vict., c. 28, and 14 and 15 Vict., c. 34, the former for the well-ordering of common lodging houses, providing for inspection, sanitation, &c., and the latter for the establishment of lodging houses for the labouring classes. In the same year further provision was made in the Metropolitan Sewers Act in furtherance of the same object. These lodging houses are now regulated by the County Council, in London; elsewhere by Towns Improvements Acts, in England and Scotland, and in Ireland by the Public Health Acts.

(b) Artisans and Labourers' Dwellings, 1855-93.—The 18 and 19 Vict., c. 88, was an Act to facilitate the erection of dwelling houses in Scotland, 1855, and the 18 and 19 Vict., c. 132, was for the

erection of similar dwellings elsewhere. In 1860, 1864, 1866, and 1867 were provisions passed in Land Acts, and Loans Acts to facilitate the erection of such dwellings. In 1868 the Torrens' Act was passed, 31 and 32 Vict., c. 130, and applied to the whole of the United Kingdom. In the years 1871, 1872, 1874, and 1875 further provision was made in the Local Government Board Act, the Public Health Acts, and the Municipal Corporations Act, and in the latter year (1875) further provision was made as regards Scotland. From 1875 to 1890 fifteen other Acts were passed in which provision was made to extend the facilities for housing the working classes. The law was consolidated in 1890 by the 53 and 54 Vict., c. 70, and further, in 1891, by the Public Health (London) Act. The whole question is now governed by six separate Acts in force.

(c) Labourers' Cottages, Ireland.—In addition to the general law relating to the dwellings of the working classes, special provision has been made for labourers' cottages, Ireland, by clauses in the Land Acts, and other Acts, and by eight Acts under the above title, from 1881 to 1893, all of which are in force, or such portions of them as apply to labourers' cottages. The Lands Clauses Acts, portions of the Towns Improvement Clauses Acts, the Railway Clauses Acts, and the Loans Commissioners Acts, also apply to the housing of the working classes. Legislation as regards the dwellings of the working classes is as yet in its infancy, and doubtless greater

provision will be made in the near future in this respect.

20. CHEAP TRANSIT BY RAIL AND TRAM-1844 TO 1893.

The necessities of our vast and growing population in large towns required that facilities should be given to the poorer classes to travel cheaply, as well as that better dwellings within the area of such towns should be provided. The first Act to provide such facilities was the 7 and 8 Vict., c. 85, in 1844, which attached certain conditions to the construction of railways authorised by Act of Parliament. Among other things it provided that there should be one cheap train each way per day, the fares not to exceed one penny The provisions were amended and extended in 1858 by 21 and 22 Vict., c. 75, made perpetual by the 23 and 24 Vict., c. 41, in 1860. In 1868 it was provided that the fares should be posted at all railway stations by 31 and 32 Vict., c. 119; and in 1883, by 46 and 47 Vict., c. 34, passenger duty was abolished as regards the cheap fares, and further provision was made for third-class passengers. In 1889 passengers' tickets were to have the fares printed thereon by 52 and 53 Vict., c. 57. Cheap fares are thus encouraged by Act of Parliament, both by rail and by tram, while the free competition of railways has led to improvements in accommodation, and also cheaper fares with the view of extending and

developing travelling by the poorer classes generally, and workmen in particular. Further provision in this respect is sure to follow at no distant date.

21. Baths and Wash-Houses—1846 to 1893.

UNDER the old fiscal legislation soap was taxed, and then the masses were denounced as the great unwashed. Recent legislation removed that blot, and encouraged cleanliness. The first Act to encourage the establishment of public baths and wash-houses was passed in 1846, the 9 and 10 Vict., c. 74. That Act was amended in 1847 by the 10 and 11 Vict., c. 61, and provision was made for bathing facilities in the Towns Improvement Act of that year, 10 and 11 Vict., c. 34, §§ 136 to 142 inclusive. In 1875 further provision was made in the Public Health Act. In 1878 the law relating to baths and wash-houses was amended by the 41 and 42 Vict., c. 14, and it was further amended by the 45 and 46 Vict., c. 30, in 1883. Local authorities were empowered to adopt the Act by a vote of the ratepayers, and in very many cases they have done so; but the adoption of these Acts is not so general as could be desired. Provision is also made for the adoption of the Acts relating to Ireland by legislation commencing with the 9 and 10 Vict., c. 87, in 1846. The two-thirds majority clause has operated against the adoption of the Acts in many places, but there is a growing tendency in the country to give further facilities for bathing, even if no provision is made for wash-houses, the latter not always being equally necessary.

22. commons, open spaces, public parks, etc.—1795 to 1893.

The necessity for breathing spaces for the people was barely recognised half a century ago. The physiological fact that animal life depends upon vegetable life, and *vice versa*, was scarcely applied to practical life, though, as a scientific fact, it was well known. The gases thrown off by the one are absorbed by the other, each nourishing the other in its turn, and contributing to the healthy atmospheric conditions so essential to animal and plant life.

(a) Inclosure of Common and Waste Lands.—The Acts for the inclosure of common lands commenced in the reign of Queen Anne, in whose reign two Acts were passed inclosing 1,439 acres. Up to the year 1797 no fewer than 1,776 Acts were passed, inclosing 3,142,074 acres. In the next three years 180 Acts were passed, inclosing 369,740 acres. Altogether 1,956 Acts, inclosing 3,511,814 acres, were passed up to the end of 1800. The idea then was that it was essential that all such land should be inclosed and cultivated to

provide food for the people. This policy continued under new conditions and simpler Acts down to 1845, during which 45 years 2,060 Acts were passed, inclosing an additional 2,801,612 acres. In 1845 the General Inclosure Act was passed, 8 and 9 Vict., c. 118. Since that date fourteen other Acts have been passed, inclosing about 750,000 acres. The whole of these Acts are now known by the short title—The Inclosure Acts, 1845 to 1882. All inclosures are now made under provisional orders, and are closely watched.

(b) Public Play and Recreation Grounds, 1847 to 1893.—Power was first given to municipal corporations and other local bodies to acquire land for public recreation grounds, in 1847, by the Towns Improvement Act, 10 and 11 Vict., c. 34. The powers thus conferred have been extended by various Acts from 1852 to the present time. Facilities are also given by various Acts for the conveyance of open spaces for public purposes, by gift or bequest, by

private individuals.

(c) The Open Spaces Acts, 1877 to 1890.—The Acts of 1877 and 1881, the 40 and 41 Vict., c 35, and 44 and 45 Vict., c. 34, were Metropolitan Acts. Those passed in 1887 and 1890, the 50 and 51 Vict., c. 32, and 53 and 54 Vict., c. 15, respectively, are general Acts, all affording greater facilities for securing open spaces for the benefit of the people.

(d) The Metropolitan Commons Acts, 1866 to 1878.—These Acts were passed to prevent the further inclosure of commons in or near the Metropolis. Under these Acts several important and

extensive areas have been secured.

(e) Public Parks.—Special Acts have been passed from time to time for the purpose of securing public parks, and powers have been granted to local authorities under local and private Acts for all those purposes. The growing tendency is to secure the best available sites in the Metropolis, and to provide in most of our large towns some parks, pleasure grounds, gardens, &c., for healthful resort and recreation in all parts of the kingdom.

23. WEIGHTS AND MEASURES ACTS-1357 TO 1893.

IT is rather curious to note the long period over which legislation has extended for the establishment in this country of an uniform and true standard of weights and measures. The Statute of Westminster, 31 Edw. III., c. 2, statute II., enacted that a standard of balances and weights shall be sent to every county. During nearly 440 years numerous Acts were passed to ensure a true standard down to 1794–5, when the 35 Geo. III., c. 102, was passed "for the more effectual prevention of the use of defective weights and of false and unequal balances." From that date to 1878 some thirty or more Acts, or

provisions in other Acts, were passed, the object of which was to establish uniformity in weights and measures, and to prevent the use of false weights and measures. In 1878 the 41 and 42 Vict., c. 49, was passed, "An Act to Consolidate the Law relating to Weights and Measures." That Act was amended by the 52 and 53 Vict., c. 21, in 1889, and again by the 55 and 56 Vict., c. 18, in 1892. The provisions in those Acts in force relating to weights and measures are fairly good and complete; whatever defects exist relate to their administration and enforcement. Full weight and full measure belong of right to every person in their dealings and purchases, and perhaps the co-operative store has done nearly as much as the law, of late, to ensure even-handed justice in these respects. Those cheated the most and worst were the very poor, but even these have now their remedy.

24. ADULTERATION OF FOOD, DRINKS, DRUGS, SEEDS, ETC.—1267 TO 1893.

ADULTERATION of food was prohibited by the statutes made at Kenilworth, 51 Henry III., st. 1., in 1267. Various other enactments were passed, the chief being in 1581 and 1604. Other statutes were passed relating to adulteration, but the extent to which it was still carried on in the year 1822 is seen in Mr. Accum's book, "Death in the Pot." The adulteration of bread and flour was further dealt with in 1836 by 6 and 7 Wm. IV., c. 37, and again in 1851. 1855 Dr. Hassall dealt with the subject in his book, "Food and its Adulterations." In 1860 parochial chemical analysts were appointed under the 23 and 24 Vict., c. 84. In 1869 the adulteration of seeds was prohibited; amended in 1878. In 1872 the Adulteration of Food and Drugs Act was passed, and also clauses relating to liquors in the Licensing Act of that year. The Select Committee of the House of Commons, in 1874, said that the people were cheated rather than poisoned; and in 1875 the "Sale of Food and Drugs Act" was passed, 38 and 39 Vict., c. 63. This was amended by the 42 and 43 Vict., c. 30, in 1879. Here again the co-operative store has exercised an important influence, and conferred a public benefit. The quality of the food, drink, drugs, &c., that we consume is as important as the quantity sold; both should be up to the true standard as by law established. To cheat the people by false weight or measure, or by adulteration, is cruel in the extreme, and deserves severe punishment.

25. THE LAW OF DISTRAINT-1267 TO 1893.

THE provisions of the Law of Distraint now actually in force date back to the Statutes of Marlborough, in 1267, the 52 Henry III.,

Then follows the 3 Edw. I., c. 16, in 1275; the cc. 1, 2, 4, and 15. Statute of Westminster, in 1285, the 13 Edw. I., c. 37, and several others down to the 32 Henry VIII., c. 37, in the year 1540. The object of these statutes was to prevent wrongful distraints, and to punish unlawful distresses for rent, dues, and debts. The 2 Wm. and Mary, c. 5, in 1689, gave further protection, but at the same time awarded damages in case the goods were rescued. The first real protection was afforded in 1737 by 11 Geo. II., c. 19, §§ 8 and 9, extended by 56 Geo. III., c. 50, § 6, in 1816, as regards growing crops and cattle, in the case of rent. As regards the poor the first Act to give relief was the Lodgers' Goods Protection Act, 1871, the 34 and 35 Vict., c. 79. In 1888 wearing apparel and tools, up to the value of £5, were exempt from distraint by the 56 and 57 Vict., c. 21, and in the next year (1889) wages were made to rank next to rates, as a first charge on the goods distrained of bankrupt or company, in certain cases, by the 52 and 53 Vict., c. 60, § 4. The cruelties of the Law of Distraint are now, to a large extent, things of the past. But until recently the homes of the poor could be stripped of everything-tools, wearing apparel, the bed and bedding, all could be taken, except the clothes being worn at the time of the distraint. Cruel injustice may still be inflicted by the way in which the laws are administered, or mal-administered, but the general tendency of legislation in this respect is now in favour of poverty—of the debtor, not of the creditor.

26, MARRIED WOMEN'S PROTECTION AND PROPERTY ACTS—1833 TO 1893.

Up to the beginning of this century the position of a married woman was little better than that of a chattel of her husband, with no recognised individual rights. A man could not legally sell his wife, but it was done, in some cases openly, in others covertly, the wife thus sold having but little legal remedy. Some men thought that they had as much right to beat a wife as to chastise his child, and even now the courts generally treat very leniently the wifebeater. In cases of ill-usage the law does, however, step in, and cruelty is now regarded as an offence for which there is a legal remedy, either in the police courts or in the divorce courts. The law as to the disposition of property dates back to 1833, the 3 and 4 Wm. IV., c. 74. Protection orders are granted under the 21 and 22 Vict., c. 108, in 1857-8; and again by the 27 and 28 Vict., c. 44, in Married women's property and savings are protected by the Married Women's Property Acts, 1870 to 1884, the principal now in force being the 45 and 46 Vict., c. 75, and 47 and 48 Vict., c. 14, in 1882 and 1884 respectively; and in Scotland by the Acts of 1877

and 1881. No right-minded man will complain of such protection as these Acts afford to a married woman; on the contrary it is a protection to him, his home, and their children, and operates beneficially to the community.

27. NATIONAL EDUCATION: AGENCIES AND INSTITUTIONS.

It is questionable whether the progress and welfare of the masses of the people depend upon any series of legislative or administrative Acts more than upon those encouraging the education of the people. Legislative aid for England only dates back to 1833; in Ireland, however, grants in aid were made centuries before, but chiefly for the purposes of proselytism. In Scotland systematic encouragement was given in the early days of the Reformation. The co-operators of the United Kingdom deserve honourable mention for the encouragement of education among the working people of both sexes, and all ages. A mere index of the Acts and agencies now in operation for the spread of education would occupy more space than is at command in this year's "Annual," and therefore only the more important groups of legislative measures can be indicated at present.

- (a) Parliamentary Grants.—The first yearly grant was made in 1833, in the first year of the Reformed Parliament, of £20,000 towards providing school accommodation. In 1839 the Committee of Council on Education was established, and the annual grant was raised to £30,000, which amount was annually voted up to 1842. In that year it was increased to £40,000. By the year 1851 it had reached £150,000; in 1861 to £803,794; and in 1870 to £914,721. In that year the Elementary Education Act was passed, under which the annual grants have risen year by year until it has now reached £6,200,000. School fees were abolished in 1891. Board schools are supported out of the rates, in addition to the Government grants. And this year the Evening Continuation School Code has been issued, the effect of which will be to advance education enormously among the working classes.
- (b) The School Sites Acts, 1836 to 1852.—This series of Acts afforded facilities for the conveyance of school sites, and for the endowment thereof. These Acts, from the repealing Act of 1841, are still in force as the "School Sites Acts, 1841 to 1852."
- (c) The Public Schools Acts, 1866 to 1873.—This series of Acts apply to higher schools, and provide for the government and property of public schools.

- (d) The Endowed Schools Acts, 1869 to 1889.—These Acts relate to secondary education, and provide for the better administration of endowments for educational purposes, schemes for the management of which are being made year by year.
- (e) The Universities and College Estates Acts, 1858 to 1880.— These Acts provide for the better administration of university and college property. Under various Acts scholarships are provided for the poorer classes, the universities being open to clever children, even from the board schools. Religious tests are also abolished.
- (f) Free Libraries, Museums, and Art Galleries.—In the year 1845 an Act was passed for encouraging the establishment of museums in large towns; in 1850 an Act was passed to enable town councils to establish public libraries and museums; and in 1855 the Public Libraries Act was passed. In 1892 the Acts relating to England were consolidated by the 55 and 56 Vict., c. 53. The provisions of these Acts apply to the United Kingdom, but those for Scotland and Ireland are in separate Acts. Those relating to Scotland were consolidated in 1887 by the 50 and 51 Vict., c. 42. The attempt to consolidate those for Ireland, in 1893, failed. Schools and institutions for the promotion of education and culture are advancing with rapid strides, to some of which even the poorest have access. May they take full advantage of all their opportunities.

SUMMARY AND CONCLUSION.

In the preceding brief outline of social and industrial legislation, during the last one hundred years, the exigences of space have compelled the omission of references, except incidentally, to several very important groups of Acts bearing upon and relating to the interests and the welfare of the working classes. Those specifically dealt with are more or less direct and special in their character and application, while those now to be mentioned are more general, but some of these might also come within the same category, only that their inclusion would greatly extend the limits accorded to this paper.

Among those omitted for want of space are: (1) The Poor Laws, the foundations of which were laid in the Act of the reign of Queen Elizabeth, remodelled to a large extent in the year 1834 by the 4 and 5 Wm. IV., c. 76. (2) The Public Health and Sanitary Acts mainly passed during the present reign, attention to which was directed by the outbreaks of cholera and other epidemics. (3) Municipal Reform, in 1835, by the 5 and 6 Wm. IV., c. 76, and subsequent extension of Local Government in Urban and Rural Districts, and latterly by County Councils in 1888. (4) Fiscal Legislation, the removal of burdens upon trade, of taxes on food, and on all other necessaries of life, with some few exceptions now imposed at very reduced rates. (5) Law Reform, by the repeal of bad old laws, by the consolidation and simplification of existing laws, and by the enactment of such laws as those previously mentioned. (6) By the repeal of the old laws relating to "Master and Servant," and by the enactment of more just laws relating to apprentices, domestic and farm servants, as to the contracts of hiring and of service, and similar agreements. (7) Acts for the Protection of Women and Children. (8) Nor should we omit the Acts relating to "sports" and cruelty to animals, all of which show a more humane spirit. (9) And, lastly, the several Reform Acts which have given to the working classes the rights of citizenship, and a voice in the creation of the laws by which they are governed, the passing of which have inspired the better laws mentioned.

In conclusion, I venture to say that the body of laws to which attention is called in this article is not only unsurpassed, but is unequalled in the legislation of the world. In many respects they are still imperfect; in some respects the administration is scarcely up to the level of the intention of the Acts; but the path is more easy for the future. One very important feature ought not to be omitted, namely, the urgent need of consolidation in all cases where it has not yet been effected, so that the law shall be simple, concise, and readily available, in a compact and cheap form, for the use of all classes of the people. The great necessity for consolidation can be

proved by three examples: The Poor Laws consist of nearly 140 enactments, besides a huge volume of Provisional or Statutory Orders of about 1,000 pages. The Acts relating to charities and charitable uses extend to about 50 enactments, besides a huge mass of "Schemes." The Merchant Shipping Acts consist of 43 enactments; the provisions of the Consolidation Bill cover 358 pages, and consist of 774 clauses. In chaos there is confusion. The very term Law implies order and exactitude.

ADDENDA.

- (1) Employers' Liability, page 218. The chief opposition to this Bill was to clause 2, the provision against contracting out of the Act. On the report stage in the House of Commons, on November 10th, 1893, the amendment to that clause, to grant exemption in certain cases, was defeated by 236 to 217—majority for the Bill, 19.
- (2) Adulteration, page 225. In reference to Adulteration, it should be stated that an Act was passed last session, the 56 and 57 Vict., c. 56, to prevent the adulteration of fertilisers, and of feeding stuffs for cattle, &c.

THE HISTORY AND EFFECTS OF THE PRIVILEGED CLASSES IN CIVILISED COMMUNITIES.

BY HENRY DUNCKLEY, M.A., LL.D.

THE title prefixed to this paper describes in general terms the subject to be dealt with. "Privileged classes" are mentioned, but the scope of the phrase is undefined, and they are to be considered in relation to civilised society as it may exist in this or any other country. We are asked to give the history of these privileged classes, and to speak of the effects they produce upon the society in which they are found. It is evident that, as a first step, we must reduce the abstract to the concrete. We must single out and identify the classes in question before we can say anything about their history, or attempt to trace the effects which may be ascribed to them. Abstract discussions have their proper place, but in dealing with practical questions it is best to start with facts and to keep them always in view. The world is full of civilised communities. There are not many that are altogether uncivilised. We think unfavourably of the Turk, but he is not a India, China, and Japan are the seats of ancient civilisations, differing, indeed, from the civilisations of the West, but of a relatively high level. For the sake of precision and definiteness it is desirable to pick out one civilised society from among the rest, and perhaps we cannot do better than choose our own. one with which we are best acquainted, and any conclusions to which we may be led in the survey of classes at home will, with due discrimination, be applicable elsewhere.

We must further add that in describing certain classes as "privileged" the word is to be understood in a popular rather than in any strictly legal sense. There are some privileges which are conferred by laws now in force; there are some which had their origin in laws that are now obsolete; there are others which have no higher sanction than social tradition and usage. Society is itself a legislator. It steps in where the law of the land ceases, issues its own decrees, and assigns penalties for their non-observance. In this way it keeps alive distinctions which would else have died out, and establishes fresh ones from time to time in defence of arrangements which it is anxious to preserve. Society is eminently conservative whatever may be the political opinions of its members.

It attaches itself to the past; it draws its inspirations from the past; its ideals and its ambitions are essentially those of the past. No doubt it moves on but it moves slowly, keeping leagues in the rear of legislation. Recent constitutional changes have made England a democracy, and the balance of opinion as declared at the poll-booth is in favour of diffusing the democratic spirit through all our institutions. The essence of democracy lies in the equality of Politically and civilly one man is as good as another, citizenship. each having the same share in the government of the State. From this fact, and from the doctrine on which it rests, it would seem to follow that a feeling of equality should penetrate all the relations of Against such a transformation society resolutely sets its face. Parliament may do what it likes, but there is a force outside Parliament which traverses its enactments and will not permit them to meddle in any way with established ideas. This social conservatism no doubt finds its most congenial soil in political There everything is in harmony, and kindred conservatism. sentiments grow well together. But politics have very little to do with the question, and it will be often found that social exclusiveness, which is nothing else than the setting up of class distinctions, in other words, of class privileges, is practically compatible with the strongest professions of Radicalism. To such an extent as this does society push its reactionary tendencies and set up the class idea in opposition to the sentiments of democracy.

The popular mind is not very apt at analytical observation. It does not trouble itself with nice distinctions. Perhaps this is to be regretted, but its faculties will ripen as education advances. At present one who is merely a citizen working for his bread sees above him, rising as it were tier above tier, the various classes and orders of people who constitute the upper sections of English society. They seem to live in a region which he can never hope to enter. Perhaps if he knew them better he would see less to envy, but looking at them from the outside they appear to him to be a privileged portion of mankind. As a matter of fact he owes much to them. But for the part which some of them have taken in the political conflicts of the last sixty years he would not have risen to the position he now occupies. These upper classes have furnished the working classes with some of their most eloquent advocates and most influential leaders. It was Earl Grey, Lord Althorpe, and Lord John Russell who carried the first Reform Bill, which had in it the seeds of all subsequent reforms. But the rapid succession of political changes at a more recent period and down to the present time has probably helped to chill the spirit of Liberalism in these higher regions, and arrayed "the classes" in opposition to further progress. Hence the feeling of antagonism which has lately been

developed between "the classes" and "the masses." The two words have even been turned into a political war cry. The circumstance is to be regretted, but at any rate it furnishes us with an occasion for taking a critical survey of "the classes" and considering how far they may be regarded as incongruous elements in a civilised society.

Ι.

The first fact to be taken into account is that we are living under a monarchy. With monarchy as a purely political institution we need not concern ourselves. We have to consider it solely on its social side. It is a necessary result of monarchical institutions that one family is raised to a position of solitary pre-eminence above all other families in the realm. Were it not for two marriages which the Queen has been pleased to permit, one would say that the height of dignity which this family occupies is absolutely unapproachable. As it is the line of demarcation is well maintained. Between members of the royal family and members of the most aristocratical families in the land no comparison can be instituted as regards rank. They are incommensurable quantities. Between the blood royal and the bluest blood in the veins of the nobility there is a difference which may yield indeed to the researches of the ordinary physiologist but is socially absolute. We have here the archytype and model of all other class distinctions. Here is an example held up to the whole community which they naturally aspire to copy and imitate in various ways. Their efforts may be poor as compared with the end to be achieved, but they are always sincere and in a measure they are generally successful. The sovereign is the fountain of honour. Hence the desire so widely felt to stand as near that fountain as possible in the hope of catching some of its sprays. have access to the Queen is deemed one of the highest distinctions. As a rule this can only be enjoyed by those members of the Privy Council who are entrusted with the government and by the small number of persons who form the permanent court, but the social functions of the sovereign allow of an extension of the privilege to a much wider circle. Levees and Drawing Rooms are held several times in the course of the year at which hundreds of presentations take place. It is not everyone who can find admission. The list of applicants is submitted to the Queen, who through the Lord Chamberlain erases names that for any reason are deemed unfit. is understood that considerations of character enter largely into this small exercise of the Queen's prerogative. Subject to scruples of this kind the doors of St. James's are always open to members of the aristocracy, to people of rank or wealth, and to persons occupying distinguished official positions. The honour seems to be highly

prized. It is regarded as a patent of social precedence and as a passport into the most select society, for who, it is suggested, can hesitate to receive those who have been "received at court"? The validity of the patent, however, is by no means universally acknowledged. There are numbers of people who in such matters are more fastidious than the Queen. When the dignity of one class has to be maintained against the ambitious pretensions of another, self-

appreciation becomes almost a duty.

Streamlets from the fountain of honour trickle all over the land. Some are made peers, others baronets or knights. Such honours are often worthily bestowed. A man founds perhaps an hospital or a picture gallery; this shows that he is wealthy and public spirited. He can "support a baronetcy"—why should he not have one? The position he has acquired has given him influential friends, and a suggestion made on his behalf in the right quarter generally meets with a favourable response. The bestowment of honours has become, perhaps has always been, an important instrument in the art of government. In former times kings conferred them on their personal favourites. The sovereign now has not much choice in the matter. Like other prerogatives of the Crown, the honour-conferring prerogative is put in commission and is exercised by the Queen's ministers. Every government in succession looks after its own A wealthy man who has served his party faithfully for many years can have almost any titular distinction he chooses to ask Sometimes the fact that he has not served his party too faithfully will do almost as well, since it is possible that proper attention will secure a more steadfast support in the future. It may be said that all this seems to sayour of corruption. However that may be it does not concern our present purpose, but we must not be too severe with human motives. They are generally of a mixed description, and to insist upon entire indifference to what makes for personal advancement would be to put a stop to half the machinery of human life. From whatever motive such honours are given or accepted they have important social consequences. They help to strengthen the conservative forces of society. They are additional supports to the existing fabric of government. When a good citizen, the elect of his fellow citizens, finds himself all at once a Lord Mayor he is naturally disposed to think more favourably of the aristocratical elements in the Constitution than he did the day before his elevation. In the same way he who accepts a title from the Crown is likely to be led to the opinion that, whatever Radicals and levellers may say, social distinctions are good and useful things. He can hardly fail to harbour sentiments appropriate to the honour he has received, and however generous their character may be they are not likely to harmonise with the equality of citizenship. The very principle of

all such honours is that it is well to raise men above the common level and to arrange society into classes which shall derive their chief value from the comparatively small number they contain and the enormous number who are excluded. This indeed is the essence of privilege. Its worth lies in its exclusiveness. It is valuable chiefly because it is not possessed by other people.

II.

WE have not only a monarchy; we have also an aristocracy, and this is the second fact to be taken into account. Of the Parliament of Great Britain consisting of Queen, Lords, and Commons, two of the branches are hereditary—the Sovereign and the House of Lords. From anything that may seem invidious in this distribution of power the Crown must be held excluded and exempt. The Crown in its legislative as well as in its executive capacity is represented by its ministers for the time being, and never fails to give its sanction to any measure which has passed the two Houses. As a result of recent political changes the legislative powers of the House of Lords have been very much abridged, though remaining the same in theory. All they can do with regard to any measure is to interpose a certain period of delay before it becomes law. Nevertheless the share of power they still possess is great and striking, and it is undiluted privilege. The peers are a permanent body in the State, independent alike of the sovereign and the people. Except in the case of new creations they owe their place in Parliament to their birth. When a peer dies his son or other nearest male heir succeeds to his position and begins his duties as a legislator; there are no guarantees for his ability, his wisdom, his knowledge of affairs, or his moral worth. means certain that he will not turn out a fool, and there are some members of their Lordships' House who have been accustomed to shine in that capacity. When once a man has been made a peer the right to a seat in the Legislature is secured to his descendants as long as the race shall last.

The privileged position which the peers enjoy in the sphere of legislation has been turned to their advantage in many ways. It has enabled them to maintain or to acquire other privileges. Aided by their allies in the other House, where till far within the present century landed influence was supreme, they succeeded in keeping in their own hands the greater part of the land and in establishing a virtual monopoly which included almost all the rest. The peerage had to be maintained—this was the first canon to be observed. It could only be done by keeping the family estates together and handing them down in undiminished bulk from one generation to another. The older law of entail, which established the succession

to landed property in the line of eldest sons, was broken in upon by the fictions of the law courts, and the practice is now strictly limited, but means of evasion have been discovered. Land can only be settled legally for a life or lives in existence and twenty-one years beyond. This allows time for the next heir to come of age, and by an agreement between him and the tenant for life the land is resettled in the same way for another period. It is clear that this practice, which is all but universal, is pretty much the same in effect as a perpetual entail. The greater part, one might almost say the whole, of the land is under strict settlement. It is thus kept out of the market, and as it is heavily burdened with provisions for dowagers, sisters, and younger sons, no surplus is left for the improvement of the estate. For the same reason rents have to be kept up at the highest competitive level, and the farmer till lately ran the risk of having to pay rent on his own improvements.

Manorial rights, as they exist over a large part of the country, are remnants of privileges which the peers of England acquired at an early period. The manor is an institution which dates from Saxon times. It was adopted and extended by the great barons among whom the land was distributed after the Conquest. None have been created since 1290, when the statute Quia Emptores put a stop to sub-infeudation. As an institution the manor no longer survives except as an historical curiosity, though there are still places where the manorial courts, the Court Baron and the Court Leet, are kept up as a matter of form. But there are some rights which the lord of the manor still asserts. The statute of Merton, passed in 1236, gave to the lord of the manor the right of enclosing all common land that was not absolutely required by the freeholders. As a proof of the vitality which this old statute is held to possess after the lapse of almost seven centuries, it may be mentioned that Lord Salisbury appealed to it the other day in opposition to a measure proposed by the Government in the interest of the rural districts. Every bit of the waste land of the manor belongs to the lord, and what constitutes waste is likely to receive at his hands a rather liberal interpretation. An outlying common; the grassy stretches that lie along either side of many a country road, and in some cases extensive open spaces which from their being near to some large town have become valuable for building purposes, are liable to be impounded by the lord of the manor. His rights are, perhaps, all the more vexatious because they are not rigidly defined. No one can tell exactly where or how he may interfere, and in country districts, where it is dangerous to dispute his authority, he has hitherto been able to have pretty much his own way. The Game Laws may be cited as another instance of the privileges which have been acquired by the lords of the soil. They have their origin in the

Forest Laws, which were framed by our early kings for the protection of large tracts of country where game was preserved for the diversion of themselves and their courtiers. In course of time, as population increased, it was deemed necessary to extend these laws to all land where game was found, in order, as was alleged, to prevent its extirpation, but in reality to deprive the common people of their right to capture things that were wild by nature and no man's property. The Game Laws have been carried out in a spirit of tyranny, and have been a fruitful source of demoralisation. They have helped to terrorise the rural districts. The village labourer hardly dares to look over a hedge for fear of catching the game-keeper's eye and exciting his suspicions. The gamekeeper is the despot of the woods and the country side, a foe to be held in awe

and placated by all manner of submissiveness.

We have spoken of some privileges which are conferred by social usage, and the landed aristocracy have always had the largest share The peers throughout the country stand first in social position. They are at the top of the ladder which many are ambitious to ascend. They are the Lord Lieutenants of counties. Every bench of magistrates is filled with their nominees. social influence is supreme. A peer is accepted as the most distinguished personage in the district where he resides. He may be only the first of his line, and his immediate ancestors may have risen from the industrial ranks, but imagination invests him with the immemorial splendour of the class to which he now belongs. He lives on terms of easy condescension with the more important gentry of the neighbourhood, and his patronage and countenance are sought by all who have any special interests to serve or any ambitious wish to gratify. It is a common saying that the English people dearly love a lord, and there is a good deal of truth in it. The lord has his relations. While they share his honours they also help to extend his influence and to diffuse the incommunicable aroma of noble birth through large portions of society. The dignity of the peerage is restricted to the peers themselves. Their brothers and sons are commoners, from a legal point of view on a level with the rest of the community. But the sons have courtesy titles. The eldest son of a duke is styled a marquis, and so on through the descending steps of the peerage. In "Burke's Peerage" there is published a table of precedence which determines the relative position held by the various members of the aristocratic hierarchy, so that all shall know their places, and not ignorantly or presumptuously usurp the privileges of the class above them. serves as an object lesson to the rest of the community who are taught to emulate in their several degrees the example of their betters.

III.

WE have now to descend a step or two to consider other dignities of less renown. The lowest degree in the peerage is that of baron. It therefore seems appropriate that the highest dignity below the peerage should be that of baronet, or little baron. It was instituted by James I., in 1611, for reasons sayouring more of business than of chivalry. He had recently "planted" the North of Ireland with Protestant farmers from Scotland. The Ulster Plantation, as it was called, having a hostile population on its borders had to be furnished with means of defence, and as the king had no money to spare, while honours could be created at no cost, he instituted the dignity of baronet in order, as the saying is, to raise the wind. were that the new baronet should support thirty soldiers to serve in Ireland for three years, paying them at the rate of eightpence a day, and a year's wage had to be paid into the exchequer at once. The total cost to the baronet was about £1,000, and there was no guarantee that the money would be applied to the purpose for which it was raised. The number of baronets was fixed at two hundred, and the king did not go beyond that limit, but it was afterwards exceeded, and no limitation is recognised now. Some regard was had to the birth and means of those upon whom the honour was They were to be gentlemen of coat armour of at least three descents, that is at a remove of three generations from the common people. The dignity carries with it nothing beyond a titular distinction, denoted by the prefix "Sir," but it is hereditary, and that is of some consequence, occasionally, perhaps, an inconvenient one, since it involves the endowing of a family with permanent means of maintaining its rank. Care has been taken to keep the baronets in their proper place. In order of precedence they rank after the younger sons of viscounts and barons.

Next to the baronets come the various orders of knighthood, which have at any rate the prestige of greater antiquity. We are familiar with the designation from the earliest times. Originally the knights were the immediate attendants upon the king and the great nobles. Under the feudal system they were bound to service in war, and the military obligations of the tenants of the Crown were reckoned at so many knights' fees. Then came the days of chivalry when knights sallied forth to challenge all and sundry in maintaining the superior perfections of the ladies to whom they had pledged devotion. The Church interested itself in the creation of knights, and had various orders of its own, the Knights Templars, for example, whose chief business was the rescue of the Holy Land from the hands of the infidel. At one time the investiture with the honour of knighthood was accompanied by a religious service. The candidate

had to bathe himself, attend the confessional, spend a night in lonely vigil before the altar, and receive the sacrament. He laid his sword upon the altar as a sign of his resolution to defend the cause of the Church and lead a holy life. The title was conferred by binding upon him the sword and spurs, after which the person conferring the order struck him gently on the cheek or shoulder, adjuring him to be a good and faithful knight. He then took an oath "to protect the distressed, to maintain right against might, and never by word or deed to stain his character as a knight and a Christian." One may admit the poetry of such a ceremonial. The knight became a sort of idealised personage. The romancers of the period introduced him To them we owe the fictions of the Paladins of into fables. Charlemagne and King Arthur's Knights of the Round Table. chivalry in which the knight was the most prominent figure lasted longest in Spain, where in the last days of its decline it was finally laughed out of existence by Cervantes in his "Don Quixote." In England the military knight perished more prosaically. been originally bound to military service he was held liable either to serve or pay an equivalent. His service was not wanted. The king wanted money. Hence knighthood was forced upon people who were supposed to be able to pay, and they often agreed to pay the money on condition of being allowed to decline the honour. It thus became a mere instrument of extortion, and was finally got rid of in the reign of Charles II. by the abolition of knights' service on which the demand was founded.

The mystical and legendary associations connected with the knighthood of the Middle Ages confer some lustre upon the various orders of knighthood which have been created in modern times. The oldest of British orders, the Order of the Garter, goes back to the days of Edward III., a monarch whose head was rather full of nonsensical ideas derived from the practices of chivalry. restricted to the Sovereign, the Prince of Wales, and twenty-five companions who are elected from among sovereign princes and other members of ruling houses, and the most distinguished members of the British aristocracy. The figure of St. George on horseback encountering the dragon, which is one of its principal decorations, gives it a specially English character, St. George being regarded as the patron saint of England. As counterbalancing distinctions of a national character we have the "most noble and most ancient Order of the Thistle," which was revived by James II. in 1687, and the "most illustrious Order of St. Patrick," which was instituted by Both these orders are restricted, the former George III. in 1783. to sixteen, the latter to twenty-two knights, in addition to the Sovereign or, in Ireland, the Lord Lieutenant, as Grand Master, and they are elected from among the chief nobility of the respective

nationalities. From a social point of view the most important of the regular orders is that of the Bath, owing to the various grades comprised within it and the very large number of persons upon whom it is conferred. Its origin is in some doubt, but it is believed to have been founded in the reign of Henry IV., in the year 1399, and to derive its name from the ablution which the knight of old time had to undergo previous to his investiture. Whenever it may have been instituted it was revived in 1725, and enlarged in 1815 and 1847. It is both a military and a civil order. The first division consists of the Knights Grand Cross (G.C.B.), the second of Knights Commanders (K.C.B.), the third of Companions (C.B.). The first and second give the title of knighthood, the third only the right of adding two honorary letters to the name. Once on the roll of the order there is a prospect of some advance, and the companion may hope some day to be made a knight commander. Other orders which have been founded or, in one case, extended during the present reign are "the most exalted Order of the Star of India," "the most distinguished Order of St. Michael and St. George" (founded in 1818 but enlarged and extended in 1868 and 1877), "the most eminent Order of the Indian Empire," "the Royal Order of Victoria and Albert," and "the Imperial Order of the Crown of India." The two latter are exclusively for ladies. The Order of St. Michael and St. George is intended chiefly for persons connected with the colonies, as the Indian orders are intended for Indian notabilities, native as well as European, and persons connected, directly or indirectly, with the administration of Indian

So much for the orders of knighthood; but there are a multitude of knights who belong to no order, and it is with these that we are chiefly brought into contact in social life. They are described as Knights Bachelors, but why they are called bachelors is not immediately obvious. The reason seems to be that as they stand upon the lowest level of knighthood they may be held to have taken their first and initiatory degree. In civil life the bachelor is often. but not always, young, and in the university the status of a bachelor in any of the faculties is that which is first reached. The distinction is conferred upon persons who have acquired eminence in any line of achievement, whether in science, art, or letters, or in connection with the administration of public affairs or by services rendered to the community. It is a sign of social desert, of public merit, and is supposed to carry with it the approbation of the sovereign, by whom it is usually conferred in private audience. The candidate drops upon one knee, the Queen deftly strikes him with the sword on one or both shoulders and bids him rise under his new title. It is not to be supposed, however, that the sovereign as a rule exercises any

power of selection in bestowing the honour. The royal observation is not sufficiently extensive or minute to be able to single out all whose merits entitle them to the favour of the Crown. That critical service is performed by the Prime Minister, who is himself aided by those in whom he can place confidence. In this way the more meritorious members of the community are discovered, and the sovereign seldom, we must suppose never, fails to accept the list submitted with such credentials.

IV.

WE must now descend a little lower than the distinguished personages with whom we have so far been concerned. In so doing we pass into circles which have a far wider sweep and comprise large portions of the community. We are familiar with the title "esquire." Perhaps most of us have had the honour to be described by it, at any rate in the address on a letter. It is also well known that there is a finely discriminating force in the epithet "gentleman," while the word is occasionally used to designate the status of individuals whose social position it would otherwise be difficult to define. The distinctions indicated by these names are perhaps of more importance to us than the grand titles which are borne by people of high rank. They are the low-clipped hedges or skeleton railings which shut off all who pretend to "quality" or "condition" from the broad unenclosed common lands on which the great mass of the people dwell. Anciently an esquire was one of the attendants upon a knight. He carried the knight's shield, assisted him when he put on his armour or when he took it off, added to his state at tournaments, and was ready with his services on the field of battle. The esquire necessarily lost his occupation when military knighthood fell into disuse, but the name survived, probably in the families of those who had once worn it and was gradually extended to others who could allege no such reason. The time came when it was hard to say who had or who had not a right to the designation. Blackstone says, in one of his chapters on "The Rights of Persons": "It is, indeed, a matter somewhat unsettled what constitutes this distinction, or who is a real esquire, for it is not an estate, however large, that confers this rank upon its owner. Camden, who was himself a herald, distinguishes them the most accurately, and he reckons up four sorts of them: 1. The eldest sons of knights and their eldest sons in perpetual succession. 2. The younger sons of peers and their eldest sons in like perpetual succession. 3. Esquires created by the king's letters patent or other investiture and their eldest sons. 4. Esquires by virtue of their offices, as Justices of the Peace and others who hold any office of trust under the Crown." Formerly a

Knight of the Bath used to constitute three esquires at his installation, but this privilege has been abolished. It was perhaps time to do so since the title could be so easily assumed or conferred. At present it is given to everybody who is somebody, from which it seems logical to infer that he to whom it is not given is a nobody, and this perhaps is the chief objection to its use. As a rule it may be said to be given to all who do not earn their living by retail trade or by manual labour, and it thus forms one of the most extensive boundary lines

between the "classes" and the "masses."

The same indistinctness attaches to the word "gentleman," when used as the designation of a class, and not as merely descriptive of personal manners, though there can be no doubt that it has a more distinguished ancestry than "esquire." We are told by those who may be considered authorities in this branch of antiquarian research that the word is properly descriptive of those who are held to be the untitled nobility of England, that is to persons "of family," who can trace out a lineage in what is known as "gentle blood." The ancient definition of a gentleman was one who had a right to coat armour, or, as we now call it, a coat of arms. We are told that a "gentleman" and a "nobleman" were once identical in meaning, and that the English "gentry" are properly on a level with those who on the continent are entitled to prefix to their names the ennobling particles von and de. In Germany these matters are carefully looked after, and no one can assume the prefix von who is not entitled to use it. The equivalent de in France has been more unfortunate and means little more than our esquire. The right to a coat of arms was once carefully restricted in England. The various colleges of heralds kept a jealous watch over the counties, and any one assuming arms to which he was not entitled was called to account. In our days the college of heralds is more obliging, and is willing to furnish a coat of arms to anybody of any social pretentions who can make out a colourable lineage and is willing to pay the In practice a person may assume what arms he pleases, only the Government taxes him for the luxury. We are told that "the gentry of England formerly had many privileges recognised by law. If a churl or peasant defamed the honour of a gentleman the latter had his remedy in law, but if one gentleman defamed another the combat was allowed. In equal crimes a gentleman was punished with less severity than a churl, unless the crime were heresy, treason, or excessive contumacy. A gentleman condemned to death was beheaded, not hanged, and his examination was taken without torture. In giving evidence the testimony of a gentleman outweighed that of A churl could not challenge a gentleman to combat, because their conditions were unequal." In this description we are reminded of some vestiges that still linger in English society. In

course of time the "gentleman" went the same way as the old knights and esquires. Sir Thomas Smith was a statesman and diplomatist of the sixteenth century and wrote a book on the Commonwealth of England from which Blackstone quotes the following passage:—

As for gentlemen they be made good cheap in this kingdom, for whosoever studieth the laws of the realm, who studieth in the universities, who professeth liberal sciences, and (to be short) who can live idly and without manual labour, and will bear the port, charge, and countenance of a gentleman, he shall be called master and shall be taken for a gentleman.

The "master" of Sir Thomas Smith is our present Mister or Mr., and this title is at any rate very generally bestowed, though it has its limitations.

We may perhaps venture to make some slight reference to privileges of another kind—those which spring from the exceptional position of the Church of England. In doing so we need hardly disclaim all sectarian prejudices or preferences, and still less any desire to touch upon pending controversies. With the question in its religious and even in its ecclesiastical bearings we have nothing to do. From us it challenges consideration purely on political and social grounds, and as a matter of fact and not of opinion. The Church of England comprises within its pale a large and perhaps a preponderating section of all classes, and in this sense it cannot be regarded as a class institution. But it may also be said that in another sense it founds a class and sets up a class distinction on the largest scale. It is an Established Church; all other churches are non-established. It is the Church to which the State gives its sanction, thereby recommending it as the one to be chosen in preference to any of the rest. The Sovereign is in a special sense the head of this Church and is bound by law to be in communion The highest dignitary of this Church officiates at the Coronation, places the Crown on the head of the Sovereign, and recites the terms of the oath by which the Sovereign is pledged to maintain the rights and privileges of the Church. The Queen appoints a number of clergymen to act as her chaplains. could not appoint a nonconformist minister in that capacity. What would happen if the Queen were to be seen in a Methodist chapel it is impossible to conjecture. We can only imagine the sensation that would thrill the realm. The Church is represented in the House of Lords by twenty-four archbishops and bishops, the bishops beyond this number succeeding in the order of their consecration as vacancies arise. They are not peers; they sit as Lords of Parliament and practically enjoy all the privileges of the regular peerage. The Speaker of the House of Commons appoints a

chaplain who says prayers every day when the House meets for business, but his choice is restricted to the privileged order of clergymen. It is so with almost all public appointments of a clerical kind throughout the country. A nonconformist minister cannot legally be appointed even to the chaplaincy of a workhouse. The land is divided into parishes, and in every parish there is one minister who is maintained by law in the enjoyment of exclusive privileges. Our ancestors left tithes and glebes for the support of religion in connection with the only Church which then existed. Their descendants are now distributed among a dozen large denominations who aim at the same objects as the Church of England, and do their share in promoting the religious and moral interests of the community. But the property bequeathed by our common ancestors for religious purposes is appropriated exclusively to the maintenance of the Established Church.

What we are most concerned with is the social effect of these arrangements, and chiefly with their tendency to set up a class distinction involving privilege on one side and disability on the other. There cannot be much doubt that they have this result. Laws may be just, but they may be administered in an illiberal spirit, so administered as to disregard their intention while obeying them in the letter. Usage is more powerful than the law, and we have to consider what sort of usages the established institutions of the country help to foster. It is found in practice that the existence of an established church helps to foster among those who belong to it a feeling of superiority and exclusiveness towards nonconformists. There are thousands of public offices throughout the country which a nonconformist, however highly qualified, has no chance of obtaining. It is asked, or it comes to be known, to what denomination he belongs, and if he does not belong to the Church that fact of itself is enough to turn the balance against him. The offices in question may be maintained out of the rates to which all classes contribute, but that makes no difference. Of course the actual disqualification is never mentioned. If it were it would be repudiated with decent indignation. But it is silently acted upon all the same. result takes place very generally in connection with voluntary institutions, such as hospitals and schools. Other things being equal, and often when they are not equal, to belong to the Church of England, or at least not to belong to a nonconformist denomination, decides the choice. A widely established preference of this kind is privilege of a very substantial character. So far as it is produced by sympathy of opinion it may be regretted but cannot be helped, except by the inculcation of broader views, but it appears in a different light when we find it traceable to the authority and example of the State.

V.

In this review of the privileged classes it may seem that one thing is absent which ought to be found in it, namely, the idea of wealth. The distinction between the privileged and the unprivileged classes is indeed often taken to be the same as that between the rich and the poor. The allusions made to the privileged classes in popular literature, and especially in speeches, are often so worded as to make it difficult to understand whether those classes are considered objectionable because they are privileged or because they are rich. Probably in most cases the two ideas of privilege and wealth are fused together as if they meant one and the same thing, and were naturally inseparable, nor is it difficult to account for the formation of this habit. The rich can allow themselves many indulgences which are out of the reach of the poor. They can live in large houses, they can surround their dwellings with gardens and pleasure grounds, they can afford to keep horses and carriages and a good many servants, perhaps to have more houses than are necessary, and to move about from one part of the country to another for the sake of health or pleasure. They do all this without working, and simply because their income is large enough to enable them to live as they please. In a very obvious sense of the word they may be considered a highly privileged section of the community, and we regard them without difficulty as a privileged class. Assuming wealth to be a privilege, it is at any rate infinitely varied in degree. Those to whom the description just given applies are comparatively few. Beneath them there are innumerable gradations till we reach the level of those whose income, though modest, is equal to all their wants. They live, perhaps, in a house of their own; they are able to save something out of their earnings or out of the profits of their trade, and are gradually accumulating a little property which they will leave to their children. These gradations of wealth come so near together that it is not easy to tell where to draw a dividing line. Below them all we come to the great mass of the population who have nothing beyond their weekly wages to subsist upon, and find them no more than sufficient—if sufficient—to maintain their families. But even among this large class there are many subdivisions, and those on the higher level may well be looked upon as privileged beings by those who occupy the lowest.

The question arises, then, whether wealth can be regarded as a privilege in the same sense as the distinctions we have been considering, and whether the wealthy class, simply because they are wealthy, are to be ranked among the privileged classes. For some help in deciding this question let us turn to our common friend, the dictionary. We find "privilege" defined (1) as a particular and

peculiar advantage enjoyed by a person, company, or society beyond the common advantages of other individuals, and (2) as any peculiar benefit or advantage, right or immunity, not common to others of the human race. "Privilege," as a verb, that is to confer a privilege, is to grant some particular right or exemption; to invest with a peculiar right or immunity, as to privilege representatives from arrest, to privilege the officers and students of a college from military duty. The participle "privileged," the word used in the title of this paper, is defined as the enjoying a peculiar right or immunity. It will be gathered from these explanations that the ruling note of privilege is that it is something conferred; something that is not to be acquired by individual exertion; something from which all are debarred except those upon whom it is bestowed. This is the universal attribute of privilege, and it is not the attribute of wealth. The evidence of this is a matter of every-day experience. Most people try to better their condition, that is in the homely and material sense of the word. They seek to become richer than they are. Some have far greater opportunities than others, but all use, or are expected to use, the opportunities they have. They do this without asking anybody's leave. In a free country it is a right common to every member of the community. And very wonderfully is it improved. It has been said of the wealthier portion of our manufacturing communities that in the case of most of them their fathers or grandfathers were clogs, and it is sometimes the fate of their posterity to return to clogs again. Many of the wealthiest men of this generation were born among the very poor, and so in a lesser degree, owing to the fewer opportunities afforded in former times, it has always been. When men become wealthy they are often marked out for privilege in the true sense of the word. Hence we see the sons of men who started poor and made a fortune raised to the peerage and taking their seats among our hereditary legislators. privileged classes and the wealthy classes are not commensurate. They are not of the same bulk, and do not cover the same area. The wealthy classes extend far and wide beyond the domain of privilege. Many of the privileged classes are comparatively poor. The shrinkage of the incomes derived from land has brought something like poverty into many an aristocratic abode, and it may almost be said that the pecuniary straits to which members of the aristocracy have been driven have helped to make poverty conventionally respectable.

The existence of a leisured class, exempt from the necessity of working for a livelihood, depends chiefly upon the right of bequest, in the exercise of which a person who has acquired wealth leaves it to his children at his death. This right, again, is one of the incidents of the institution of private property, in recognition of which the State guarantees to individuals the quiet possession of what they

may have acquired by their own exertions or inherited from their ancestors. Private property, if not the creation of law, is dependent upon law for its protection and for its secure transmission from one individual to another. It is possible to imagine the passing of laws which would put an end to it. The State might appropriate to itself the property of all its citizens, and forbid them to acquire more. The way to do this would be to prohibit them from working for their own advantage, and to throw the results of their labour into a common fund which should belong to the whole community. is one of the forms of socialism, the merits of which it is not by any means our purpose to discuss. What we may observe, however, is that society has never yet existed on that basis. In ancient times, and in some countries, we find something like a common possession of land, and the village communities in Russia and India still preserve some traces of the ancient practice, but in the countries of the West the possession of land in severalty, in other words its possession by private owners, seems to have been coeval with an early stage in the progress of civilisation. No great advance appears to have been made in agriculture, or, so far as evidence goes, would seem to have been possible, till a premium was put upon production by a recognition of private ownership in land. By the Brehon Laws as they existed in Ireland the land belonged to the sept or clan. It was allotted to individuals for life, and on their death was redistributed. The barbarous condition in which Ireland existed for many centuries has been ascribed to this arrangement, while the "magic" of proprietorship is held to be illustrated by the indomitable industry of the French peasantry who for the most part own the land they till. But land is a comparatively small part of the aggregate wealth of a country like ours. How much of that vast aggregate would be in existence to-day if the rights of private ownership had been abolished a hundred years ago it is needless to conjecture. is sufficient to say that those rights are acknowledged in all civilised countries, and always have been from the time when civilisation as we understand it made any important advance. In all ages and in all countries the amount of protection afforded them by the laws of the State may be taken as the surest measure of the character of the Government and the general welfare of the people.

But while property is not privilege, the right of acquiring it being open and common to all, it must be admitted that it forms the basis of the most obvious and the most irritating of class distinctions, and carries with it many of the practical effects of privilege. The first thing that strikes us in a survey of the community is the division which everywhere exists between the rich and the poor. It may not be true, as is sometimes asserted, that with us the rich are every day becoming richer and the poor poorer. Judged by such tests as

are within our reach, the statement is one which it would not be easy to make good. The income tax returns, the statistics of building societies, and we may add, since we are on our own ground, the marvellous results of co-operation, show that wealth is less unequally distributed at the present time than it has been at any former period of our history. Nevertheless the inequality is great, and in some respects alarming. Wealth is a form of power. It gives to those who possess it the command of labour, and makes them the stronger party in any dispute that may arise over the division of profits. Since the division is a simple one between those who find the money and those who work for wages the contest takes an abstract shape, as if two great powers were contending for victory. Capital and labour figure upon the scene like super-human beings whose interests are irreconcileable, and who are bound to fight till one of them lies crippled in the dust. In reality it is all a delusion, as we may hope will be some day demonstrated when better methods are adopted and wealth is more generally diffused. It follows almost naturally that the two classes are kept very much asunder. They do not live in the same part of the town. Cheaper dwellings and the convenience of being near their work fix the places where they are to take up their abode. They crowd together in narrow streets and dingy surroundings, while the rich betake themselves to the suburbs where the sky is not always overhung with smoke, and trees and fields are close at hand. Differences of cost and of taste prevent the two classes from sharing in the same amusements. They do not meet much even in church, though it used to be said that there the rich and the poor meet together, God being the maker of them all.

Class implies class feeling, and it is impossible to deny that the feeling exists. It exists on both sides, among the poor as well as among the rich. With the former it sometimes takes the shape of servility-a degrading vice which happily is not spreading; more frequently of habitual deference, as if some tribute were naturally due to those who are better off; while with others the feeling is one of mere dislike, seasoned with a spice of defiance and even of disdain. The rich, on the other hand, too often give themselves airs as if the mere circumstance of their being rich conferred upon them some right which their poorer neighbours do not possess. They talk to them as to inferiors, using certain forms of speech and certain tones of expression which they would never think of employing with persons on a level with themselves. They appear to forget the plain fact that assumption of this kind is sheer impertinence. The poor owe them nothing. Their wealth is but a personal accident—something which has happened to them, but conveying no legal or moral title to superiority. It is needless to say how many exceptions there are to the rule. We

know them and honour them when they occur. If we wish to gauge the moral worth of a rich man let us hear how he addresses his workmen or his domestic servants, the porter who handles his luggage, or those who wait upon him at his club or hotel. The test is a slight one, but it is not the least decisive. The poor, who are the chief sufferers from such ill-conditioned manners, would perhaps think themselves avenged if they could see how the class feeling based on superior wealth pervades the whole of society. Those whom they group together as the rich, because they are all richer than themselves, are themselves split up into innumerable sections, which lie upon each other horizontally like the strata of some geological formation, the order in which they lie being determined by their comparative wealth. The tens of thousands, the thousands, and even the hundreds keep well together. They all know their place, or are made to know it. To a very large extent The professions cross money is taken as the measure of the man. these lines; their business brings them into contact with people of all classes, and they serve in some sense as a reconciling and uniting medium. But even their position is more or less rigidly defined. A wide social interval separates them from the tradesman and the artisan, while an interval quite as wide leaves them only a permitted and tolerated intrusion for other than professional purposes into the ranks which lie nearer the skies. Society is furrowed all over with class distinctions based solely upon wealth. If it did not happen that money sometimes makes to itself wings, ours would soon become like India—a country of castes from one generation to another.

VI.

THE history of the privileged classes is in a broad sense the history of human society. It is a vast theme, and all we can do is to attempt to convey some conception of the process which, as a matter of fact, has led to existing social conditions. But, first, it may be necessary to disabuse ourselves of some ideas which are apt to influence our conclusions almost without our being aware of it. There is a widely-spread notion that society as we find it is the result of a deliberate arrangement devised by the ancestors of the race; that it was in some way designed and planned and finally fixed upon as the best that could be adopted. The supposition of a voluntary choice implies that there was some other plan which might have been selected had they thought fit. They might, for example, have declared that in the society of the future there should be neither kings nor nobles, neither rich nor poor, but that all its members should be placed on a footing of perfect equality as regards each other. This seems to be so fair that these distant ancestors

in rejecting it might well be held responsible for their choice, and be regarded as justly chargeable with all the inconveniences, all the ills and wrongs, that have resulted from their unwise decision. These ideas must be set aside as the offspring of the imagination. is nothing to justify the supposition that the subject was ever considered, that such alternative plans ever existed, or that there was ever anything in the way of consultation or choice as to the lines along which society should travel. We may almost venture to say that any such concert or decision was in the nature of things impossible. At the furthest point to which we are able to trace the existence of mankind we find them broken up into scattered and independent communities, each pursuing its own course, each developing itself out of previously existing conditions, and all more or less hostile to each other. We find, as a matter of fact, that each successive stage in the history of the race, or of any portion of the race, has been the result of the stage previously reached. One generation follows another, each inheriting the ideas and customs of its predecessor, and generally improving upon them as intelligence advances and as experience leads to the adoption of better methods, but a distinct line of continuity is maintained throughout. So we go further and further back till we reach a point where history forsakes us, and science aided by geological records takes up the lamp, enabling us to see in the glimmering twilight the remote progenitors of our race living in caves, or mud huts, or lake habitations, sharpening flints into arrow heads, and subsisting upon the raw produce of the soil and such animals as they were able to kill. Their situation cannot have been very desirable, but their desires went for nothing except as motives for bettering their condition. They had to struggle with nature, and they had to do so with very imperfect weapons. Nevertheless, there were the elements of heroism in their condition. They were the vanguard of the race; it depended upon them what succeeding generations should be, and it is of some importance to us that they came off victors in the unequal contest.

We have then to exclude from our conception of the way in which society has reached its present condition all ideas of design, of deliberation, and of pre-arranged plans. In a more exact sense than that in which the remark has been made of the English Constitution, it may be said that society is not a manufacture but a growth. It naturally follows that all thoughts of blame or reproach must equally be excluded. We have no right to censure our ancestors for not having seen things as clearly as we do. Just as fairly might we blame the child or the youth for not having the experience of the full-grown man. We may fancy that we see points where they took the wrong turn and might have done better. But they acted as we

do, according to their lights. They acted in harmony with the spirit of the age in which they lived, making such changes as circumstances seemed to demand, and as were within their power, thus preparing a new field for the energies of their successors. Moral causation is discernible in the passage from one stage to another, but nothing like fatalism. The great secular forces in operation have to deal with the human intelligence and will, and are modified accordingly in their results. The process is a never-ending one, and the present generation has its proper place in it. We have to begin where our fathers left off, and endeavour to push the wheels

of progress a little further.

The active forces at work in the formation of society are to be distinguished from its visible structure. What are they, and where shall we find them? We need not go far in our search. Here, perhaps, we may borrow an illustration from geology. We are told and unhesitatingly believe that the globe on which we live has undergone enormous and repeated changes during the millions upon millions of years that it has been in existence. All that is now dry land was once at the bottom of the ocean. Continents and seas have changed places. The distribution of land and water in our immediate neighbourhood was very different once from what it is There was no sea between this country and the Continent. A former school of geologists explained these changes by supposing the occurrence of tremendous catastrophes from time to time which broke in upon the settled order of things, after which it might be said that nature resumed her usual course. Lyell put an end to this theory by carefully investigating the physical agencies that are at present at work in every part of the globe, and showing that, giving them time enough, measurable by hundreds of thousands or millions of years, they are adequate to explain the changes that have taken place. We need not conjure up sudden catastrophes. The causes now at work, with results that can be seen and measured, yield a sufficient explanation.

It is much the same with the growth and development of society. To explain the various forms it has assumed and the inequalities it now exhibits we need only look at the causes which are in actual operation. It is probable that no two men who are born into the world are exactly alike in their physical and intellectual endowments. Marriages are said to be made in heaven, but as we know them on earth they may be said, as regards the mating of temperament and dispositions, to be pretty much a matter of chance, and the result is such as it may be. Some children are weak and sickly from their birth. Without great care they would not long survive, and as they grow up they are ill fitted to battle with the storms of life. Others are vigorous and hearty, and they turn out strong men, fit,

as the saying is, for anything. The differences are as great on the side of the intellect. In some an eager curiosity seems to possess them from their childhood. They have a quick observation which is sharpened by exercise and adds every day to their practical knowledge of the world, and of the circumstances in which they live: while others are dull and indifferent, seeing but little through their eyes, and turning what they see to little account. These differences exist in every class; they are among our most familiar experiences. There are other differences which we call moral, but which have for the most part a congenital root. They may be modified by parental training, but the capacity to give such training, and the disposition to give it, only suggest a class of advantages which are very unequally distributed. But moral qualities, however acquired and however cultivated or neglected, often tell with decisive force upon a future career. The will is a mysterious power. It seems to come from our inmost self, and those, perhaps, are not wrong who see in it the very essence of our individuality. Force of will is another name for force of character. It varies with the individual, and we all know the enormous practical difference there is between a weak and a strong will. The weak will gives in at once before difficulties, refusing to contend with them, and allowing judgment, so to speak, to go by default; whereas the strong will wrestles with them, and generally ends by overcoming them. We recognise the strength that resides in a "plodding man." He may seem rather dull, but he has the faculty of not knowing when he is beaten. He pushes on quietly and steadily from day to day, and gains his end at last. These differences are not found for the first time in the present generation. They have always been at work, and from the nature of the case it is safe to assume that they must always have led to corresponding results.

Along with these differences in the natural equipment of individuals we have to recognise certain characteristics as more or less common to mankind, since they seldom fail to show themselves when there is room and opportunity for their development. Acquisitiveness is one of them—the love of possession, the love of wealth. Akin to it is another, the love of power, the instinct of domination or of domineering. We shall all readily recognise a third in a thirst for distinction, a love of fame, a desire to stand high in the estimation of the world, and more than a willingness to enjoy some outward attestation of it. Happily there are also the sympathetic virtues, the love of one's neighbours, kindness, generosity, pity. Their influence is exerted in a quiet and unobtrusive sphere, but it may be said that without them society would never have held together. It has been said that the family is the nursery ground of the social affections, the fruitful soil into which their seeds are

thrown; but, granting that this is true, it must also be admitted that the family invariably asserts itself as an independent interest, and becomes in some sense a powerful rival of all other interests that lie beyond its sphere. A man works for his family, all that he acquires and is able to keep he desires to leave to his family. He loves them so that if he were able he would assure to them and their descendants the perpetual enjoyment of the competence, the social position and perchance the honours which he has succeeded in procuring for himself. We have no difficulty in recognising these characteristics as existing and energetically at work within the compass of our experience, nor can we doubt that they operated as powerfully a thousand years ago as they do to-day. But the precise way in which they have exerted themselves has been determined by the stage of civilisation that was reached, by the condition of society and the temper of the age. We have amongst us a class of men whom it was once the fashion to call "the captains of industry." In earlier days they would have been captains of a different sort. The place now held by industry as a means of making fortunes was then held by the sword. Money was then scarce, and the multiplied agencies by which wealth is now acquired had no existence. Land was the chief form of wealth, and this fell to those who had the power to take and keep it. Laws were then very fragile; they could be easily broken, and such central authority as existed was too weak, and perhaps not too willing, to enforce obedience. Turbulent spirits endowed with strong arms and strong wills had then many chances open to them which gradually disappeared before the increasing reign of law. Such men would not pass muster to-day before any moral tribunal, but they must be included among the forces by which the social fabric was reared.

VII.

The earliest societies of the Teutonic stock, of which we are an offshoot, appear to have been of a simple type. The affairs of each community were administered by the general body of its members, who met for the purpose at stated intervals. They were all on the same footing, owing no allegiance to any superior, and regarding each other as equals. It is likely they had slaves, consisting of enemies captured in war, strangers and persons who, having sunk into the lowest depth of poverty, sometimes it is said through gambling, had sold themselves for the means of living. But these classes were not very numerous. The great bulk of the community—the whole of it, considered politically—was composed of freemen who recognised no subordination and no inferiority among themselves. It is not necessary to suppose that there were no differences. Some

may have had more land than others; some would be distinguished by their wisdom in council, by their skill in arms, and by their knowledge of affairs, and the influence thereby acquired would tend to become hereditary in particular families, but there were no classes and no class privileges. The basis of society was democratic. Only when war broke out or an expedition was planned with a view to conquest was it necessary to fix upon a leader, and then the choice would naturally fall upon the one who was considered the wisest and the bravest. It is easy to imagine circumstances which would lead to a continuance of this arrangement. Frequent wars, frequent dissensions with other communities, the constant presence of danger from invaders of another race, would need a chief who should always be in readiness to give the alarm and lead the attack. The influence thus acquired would favour the establishment of powerful families in which the chieftainship would become more or less hereditary. In some such way as this Germany came at last to be divided among a number of potentates who, without pretending to the regal title, exercised supreme authority over the people within their several They were dukes, that is leaders, of the nation. In after times, when the idea of sovereignty was introduced by the example of Rome and the conquests of Charlemagne, some of them became electors of the emperor and some of them emperors themselves. These old families or their representatives may be found among the ruling families of Germany to-day. One of them, through the Guelphs of Hanover, is on the throne of England.

The chiefs of the Teutonic people who remained at home did not become kings, but it was different with those who took the lead in foreign expeditions. The circumstances attending conquest led at once to the establishment of the regal power, and we find kings of Teutonic descent in Gaul, in the North of Italy, in Spain, and in our own country. We need only mention the Heptarchy, the seven kingdoms, as they are roughly counted, which were founded by the various English invaders and were at last moulded into one kingdom under the rule of Egbert. In this way royalty and royal families arose, but naturally a good deal else rose with them. They had their friends and associates, they required the assistance of leading men, they had to exercise their authority through persons in whom they could place confidence. Gradually a court was formed and that meant an aristocracy, at first an aristocracy by office and then an aristocracy by birth. There was a great deal of unallotted or unappropriated land out of which grants could be made to the king's By degrees the feudal system crept in first on the Continent and then in England. It was a time of violence, a spirit of rapacity widely prevailed, laws were of little force, there was no settled order. It was a great thing in such circumstances to have

the protection of some powerful personage who was able to defend those who attached themselves to him against the attacks of other parties, powerful against the smaller men, but less powerful than himself. Hence arose a general disposition on the part of landowners to surrender their lands to some great lord, receiving them back from him on terms implying the reciprocal duties of fealty on one side and protection on the other. The system reached its height when kings entrusted the government of their provinces to some of these great lords who gradually made themselves independent of the sovereign, relying upon the support of their feudatories. In England the system was not carried so far. William the Conqueror parcelled the land out among his military followers, but he made those who held land under his great barons, as well as the barons themselves, take an oath of allegiance to himself. Originally the lands bestowed by the Conqueror were revocable at the death of the holder, but this was more a matter of theory than of practice. The barons knew that they had won them by the sword, and they were prepared to defend them by the sword against the King himself. They became, in fact, their own property, descendible to their heirs in the line of their eldest sons. Hence the custom and law of primogeniture. Hence, too, in later times, the anxiety of the peers of England and of the untitled aristocracy of all degrees to keep their estates together and send them down undiminished to their descendants. This was done at one time, as has been said, by perpetual entail, and though this practice has been abolished by the Legislature, legal ingenuity has contrived to attain the same end by means of settlements periodically renewed.

It has been necessary to trace this development in outline inasmuch as the class privileges and distinctions which we see amongst us to-day have their root in this older order of things, and especially in the feudal system. We owe to it the hereditary peerage, the prestige of birth, the idea of a nobility of blood descending through aristocratic veins from generation to generation. We owe to it the modern conception, empty and pale as it has become, of the knight, the esquire, and the gentleman. We owe to it above all the idea of class, as distinguishing a part of the community from the rest, an idea which has become seminal, giving birth to a series of classes which ascend from the broad level of undistinguished humanity, only of late emerging into citizenship, through higher and higher circles till we reach the throne. The age of feudalism has been followed by an age of industrialism. itself has the oldest origin of all, for it was only by industry that the first steps were taken in the progress of mankind, and that great men had anything to quarrel about. In England, especially on the mercantile side, it obtained some honourable recognition at an early

period, and the descendants of wool-staplers are now in the peerage. But the workers, the actual producers, the men who ploughed the land or tended the pastures, remained obscure, practically bound to the soil they tilled and prevented by the law of settlement from seeking to improve their position elsewhere. Industrialism in the modern sense of the word dates from about the middle of the last century. Its achievements have been on a gigantic scale. It has produced fortunes surpassing those of the aristocracy. It has turned the balance against them and become the dominant power in the State. But the spirit of feudalism has conquered its conquerors. They worship at the ancient shrines. They fashion themselves on the models of the past. They hunger after distinctions which but for their eagerness to possess them would by this time have been effete. We live in a democratic age. Yet more peers have been created during the last fifty years than within any former period of equal duration, and the same ratio would probably be found to hold good of the last ten years. Politicians of advanced principles accept seats in the House of Lords, are grateful for baronetcies, and appreciate the honour of being knighted Only lately a new distinction has been bestowed upon the first magistrate in two of our largest towns. They were Mayors, and they are now Lord Mayors. This is not the place for hinting either at praise or blame. We mention these facts purely for their historical significance.

VIII.

These facts suggest a question to which some reply must be given. What is the relation between class privileges and class distinctions on the one hand and civilisation on the other, and is the relation such as would enable us to say that in proportion as civilisation advances those privileges and distinctions will disappear? At first sight the answer which history dictates does not seem at all favourable to civilisation. The earliest political societies of which we have any certain knowledge were, according to modern ideas, the least civilised; certainly much less so than those which succeeded them a thousand years later. Yet in these earliest societies we find the fewest class distinctions. One might almost venture to say that there were none at all. In proportion as these earliest ages were left behind, as population and wealth increased, and a higher standard of living was introduced, class distinctions sprang up and Wars were an early concomitant of civilisation, and as they led to conquest and subjugation, class privileges and distinctions of a very substantial and permanent character were the result. most civilised nations of to-day are among the most warlike, but as civilisation has modified the character of war, making it at once

more destructive while it lasts but less brutal in its effects upon the conquered, it does not produce the social changes which it once did. The growth of civilisation brought into existence new offices, new occupations, and new arts; it gave a stimulus to trade, it favoured the increase of knowledge among certain classes and in certain directions; it opened a wide field for the activities of the clergy who became its zealous allies, and were at one time the scholars, legists, statesmen, and architects of the age. other growths, there has been at every step a tendency to differentiation, to the creation of fresh wants, and the production of special agencies for the purpose of meeting them. It would be a mistake to suppose that there has been much foresight or much deliberate intention at work in the bringing about of these changes. practical force employed has been the rule of thumb. Society may be said to have lived from hand to mouth, in other words, it has taken up what we now rather grandly call "the problems of the day" and given them the readiest solution. A curious uniformity may be observed in the progress of society in lands far remote and in races very different from each other. Among Teutons, Celts, and Slavs, in Italy and in Greece, we find the same primitive assemblies and an advance along almost parallel lines, special circumstances usually of a geographical character accounting for any divergence. Japan affords a remarkable illustration. It is cut off from Europe by half the world. It is inhabited by a race which has no affinity and no connection with any of ours. Yet it seems to have made its way through stages corresponding to those which figure in European history. It has had its feudal system, and it has emerged from it in much the same way that we did, but more rapidly, having the aid of foreign examples. It is now a constitutional monarchy, with a representative system and a Parliament like that at Westminster. There is a wondrous similarity in the folk lore of all nations. most obvious explanation of these coincidences, political and mythical, is that man is pretty much the same everywhere, allowance being made for different capacities and different degrees of training, and that the human intelligence when brought face to face with the same facts generally takes the same course in dealing with them.

Ought we then to quarrel with civilisation for having handed down to us distinctions of which our judgment disapproves and which we would like to get rid of? And is it not strange that civilisation, which we so highly honour and in the fruits of which we are so glad to participate, should be chargeable with results which seem to be anti-social and mischievous in their tendency? The truth is that the word we use to describe the general progress of mankind has no absolute meaning. "Civilisation" is a strictly relative term. Every successive state of society has been civilised as compared with that

which preceded it. The civilisation of one age would be comparative barbarism if prolonged into the next. Its great use at any stage is to produce such intellectual and social improvements as enable us to find out its imperfections and to advance to something better. Out of one set of experiences, much richer and finer than those of our predecessors, we frame certain ideals reflecting a state of things richer and finer still, and these ideals we cannot help wishing to realise and embody for the benefit of ourselves and our children. The founders of the American Commonwealth had an opportunity of doing this systematically and on a great scale. They proclaimed the equality of mankind, they based their Constitution on a recognition of the equal rights of every member of the community, and they made it a law that titles of nobility should neither be accepted nor assumed by any of their citizens. The French followed their example at the Revolution. With them it was a work of violence, carried out with dreadful deeds of blood, and an exhibition of brutal passions which it is impossible to think of even now without horror. The violence displayed is largely due to the political difficulties which had to be overcome, and it has been sadly atoned for by the recurrent calamities of the last hundred years. We have been going through the same process for the last two centuries, and of late rather swiftly. The final result so far is that in point of political freedom, setting forms aside and looking only at realities, we are abreast of both countries, as democratic as France, and in some respects more democratic than the United States, since the people have a more direct control of the government. The thing which they have gained and we have not gained is social equality. We are still a nation of classes.

IX.

CITIZENSHIP and the citizen. These words set forth the primary relations which exist in civilised societies, and we may look forward to a time when it will be universally acknowledged that to those relations all others are subordinate. Very important advances have already been made in this direction. By successive extensions of the franchise the political inequalities which formerly prevailed have been swept away, and all men who have assumed the ordinary responsibilities of adult life have a share in the government of the country. The share is not yet absolutely equal. Some have more votes than others. They have qualifications in various constituencies and can vote in all. Moreover, in certain elections for local purposes the value of the vote varies with the ratable value of the property to which the vote is attached. But these are merely the insignificant survivals of a restricted franchise, and are doomed to disappear.

Broadly speaking, complete political equality now prevails. village cottager goes to the ballot box along with the squire at the The property qualification for a seat in the House manor house. of Commons was abolished many years ago, but the wider freedom thus given in the choice of representatives has acquired fresh importance from the establishment of household suffrage. years ago there was no chance of a working man being sent to Parliament. There are several in Parliament now, and their number is likely to be increased. A Warwickshire farm labourer, Joseph Arch, has attained to the dignity of a county member, and the representative of the Durham miners, himself for many years a working miner, holds an office in the Government. towns and counties working men have been placed on the Commission of the Peace and share in the privileges of "the great unpaid." It is not at all improbable that before long distinguished members of the working class will be admitted to the Privy Council, and as the principle determining the distribution of honours becomes more democratic a considerable number may be held deserving of the honour of knighthood. When once the question "why not?" is fairly asked, the range through which such distinctions are distributed may become very wide indeed. Where privilege is concerned the invidiousness it involves may be got rid of in either of two ways, by levelling up or by levelling down, and those who guide affairs may as a matter of policy prefer the former to the latter. Such a course would be in harmony with the twofold character of our Government, which is at once monarchical and democratic, and it may well seem that the surest method of securing a long life to social distinctions is to increase the number of those who have a personal interest in maintaining them.

Tendencies of this kind will be regarded with suspicion by those who keep the loftier ideal of citizenship in view. Distinctions may lose much of their value by being more lavishly bestowed, but to whatever extent they retain their accustomed prestige they exert a dividing rather than a uniting force; they help to perpetuate those class divisions of which an intelligent and free people will aspire to be rid. Political equality has been reached; what is much to be desired is that political equality should give birth to a sense of social equality, and there is reason to believe that this will be its ultimate result. Of all existing class privileges the greatest is that which is represented by the House of Lords, and one of the problems of the day is to know exactly what to do with it. The hostility with which it is regarded by a large section of politicians may be to some extent softened by remembering that the House has not made itself; that the peers have not by mere ambitious devices placed themselves in the position they now occupy. The institution comes to us as one

of the historical bequests of a distant past; it has been the growth of many centuries. That it is out of harmony with the rest of our institutions is pretty generally admitted. It resembles the Crown in being hereditary, but there the resemblance ends. The Crown exists by a Parliamentary title. Those prerogatives which formerly served as the pretext for arbitrary power have been shorn away, and those that remain are virtually put in commission to be employed partly by the Cabinet and partly by Courts of Justice in the interests of the people. The Crown really acts in a representative capacity, just as much, one may almost venture to say, as if the head of the State were elected every four years. No change of the same character has been undergone by the House of Lords. Its members, or those more distinguished members who lead the rest, are no doubt fully aware that the powers theoretically vested in them have been practically much diminished, but theory counts for something, and in point of theory the Lords are co-ordinate in authority with the Commons, while they hold no responsibility either to the Crown or to the people. Some change may be distinctly foreseen in the near future, and whatever plan may be adopted there can be but little doubt that it will be based directly or indirectly upon the principle of representation. The social influence of the peerage would probably survive its political power, but it would enter upon a descending scale, and the titles which now derive so much importance from the substantial prerogatives attached to them would become mere honorary decorations.

X.

As aids in the advance towards social equality two things hold the first place—education and good manners. Perhaps these two things are so far identical that the one may seem to imply the other, but they are not commensurate, and they are not always found together. Education is not invariably successful in teaching the rudiments of It sometimes produces a fastidiousness and an exclusiveness which are hardly less tolerable than the pretensions founded on rank and wealth. On the other hand we often meet with persons for whom education has done but little, and worldly fortune perhaps still less, but who exhibit in their conduct a gentleness, a considerateness, and a self-restraint, together with a natural civility and courteousness, which are signally wanting in many who would deem themselves their betters. Education is wanted in order to furnish the basis of a common understanding between people whom social distinctions help to keep apart. Between knowledge and ignorance there cannot be much fellowship. A man of large information finds himself in some difficulty when brought into intercourse with another man whose knowledge extends no further

than the occupation and incidents of his daily life. They cannot get on together very far. In matters pertaining to history and philosophy, to art and science, to literature, and even to the general principles of politics, they soon have to part company. This perhaps is the most formidable of the divisions that keep men asunder, and till this middle wall of partition is broken down the social equality towards which every feeling of patriotism and citizenship would lead us to aspire is to a large extent unattainable. Happily we live at a time when it is possible to cherish the largest hopes of improvement in this direction. The schools established under the Education Acts have brought elementary instruction within the reach of every child, while the evening classes and the higher grade schools supply educational facilities which not long ago were only within the means of the well-to-do. The working classes should strive to the utmost of their power to give their children the advantages of a good education, and at the cost of some self-denial boys and girls of promise should be sent to the best schools within reach. There are intermediate schools in most of the large towns, and it will soon be the business of the Government to establish them everywhere. lad who passes from the elementary to the intermediate school and thence perhaps to the university helps to bridge the chasms of the classes and to raise the standard of self-respect in that from which he sprang. The question of good manners is one of greater delicacy, though hardly of less importance. We have already made an exception which takes from it all invidiousness, and we might, had we the opportunity, single out thousands from among the poor who would serve as admirable examples of everything we could wish to Among the many incidental benefits which have been derived from trade unions and friendly societies is the moral discipline they have imposed upon their members, the effects of which are everywhere recognisable. One could hardly desire anything better than that a discipline of this kind could be extended over the whole area of the population. There is no reason why one class should have any advantage over another in those refined and gracious manners which are a part of the salt of life. They can be acquired at no cost. They need no teacher. With thought and observation everyone can teach himself. It is in this line that any class can bring itself abreast of all other classes and outstrip them if it chooses, while no achievement would tend more effectually to obliterate class distinctions. The best results of civilisation are not seen in those great enterprises which attract the attention of mankind, nor in the exploits of science, nor in the accumulation of wealth, nor in the extension of trade. Its fairest fruits are found in the habits and manners of the people.

THE HISTORY OF THE POOR LAW.

BY GRAHAM WALLAS.

THE Poor Rates are part of the price which we have to pay for personal freedom. At the time when personal freedom was the exception rather than the rule we had no Poor Law, and indeed could have had none. In the serf villages of Saxon and Norman England, men, women, and children were all too valuable to be allowed to look to anyone but their lord for their support. A law of William the Conqueror enacts, for instance, that "bondmen shall not go away from their lands, nor make device how they may defraud their lord of the service due to him; and if any bondman shall so depart, a man shall not harbour him nor his goods, but shall cause him to return to his lord with all that is his." Within the village the steward took care that the total of his lord's people, the "souls" as the Russians would say, should not be diminished. An orphan boy might cost for the moment more than he was worth, but the steward could easily billet him on some childless pair, and he would soon be able to pay the service of three days' work a week for a freshly cleared villein's holding, or toil hopelessly all his life long as a slave with neither land nor hut of his own. A girl would some day bring up bondmen for my lord, or even if she married into another's homage would at least pay her merchet fine. The sick might recover to enrich their master, the old could be continued on their land and supported by the sons who performed their services and would some day succeed them. One even seems to detect a certain disinterested kindliness in the entries on the manor rolls which record that some old woman held her scrap of land by the service of carrying water to the haymakers, or some old man did "cartage on his back."

Inside the little walled towns things were indeed different, especially in those which had won by hard bargaining the right of freeing any man's bondman who for a whole year had borne his portion of the town burdens. The personal freedom of the townsmen, restricted as it was, brought with it the problem of poverty in something like its modern form. But the townsmen were few in numbers; when Domesday Book was made the eighty English towns only contained about one hundred and fifty thousand inhabitants. They were on the whole a prosperous folk, and the trader and craftsman soon learnt the advantage of compact association, involving

as a rule mutual succour in times of need. They were also intensely religious, and casual destitution could be dealt with by the offerings in the parish church, or the alms daily distributed at the gate of that cathedral or abbey close which sometimes took up half the

space within the walls.

In such a social system public authority in the persons of the sheriff and his men would only be forced to consider what to do with the homeless and breadless, when some anxious owner of geese or swine pointed out a group of wanderers camping by the road side without visible means of subsistence. In such cases the answer was easy; if the vagrant's master were known let him be sent back to his own village, if he had no master, or his master were untraceable, let him choose one or himself be chosen. So the Assize of Clarendon (A.D. 1166) orders that the vagrant "be taken and held until his lord come to give surety for him, or until he himself find safe pledges." Lunatics wandered about and perished, the crippled and the blind and the ingrained vagabond haunted the gate-houses of the great country monasteries, but the village poor rubbed along as Langland's touching lines afterwards described them—

Poor folk in cottages Burdened with children and chief rent to their lords; That which with spinning they may spare they spend it in house hire, And in milk and meal to make cakes with, To satisfy their children that cry after food. They themselves also suffer much hunger And woe in winter time, with waking a-nights To rise to the reel, to rock the cradle, To card and to comb, to clout and to wash, To rub and to reel, rushes to peel, So that it is pity to tell or in rhyme show The woe of these women that dwell in cottages, And of many men also that much woe suffer, Both a-hungered and athirst, who turn the best outward, And be abashed for to beg, and will not have it known What they need at their neighbours.*

But by the beginning of the fourteenth century the old order was already breaking up. The growing practice of keeping exact accounts, and treating every village and its inhabitants merely as a means of profit making for an absentee lord, was making serfdom more intolerable and stirring up a formidable spirit of resistance. The scientific law which was being administered in the king's courts, while it often injured the serf by identifying him with the Roman slave, was nevertheless an engine by which customary rights when once gained could be stiffly upheld. Edward I., by destroying in large measure the private jurisdiction of the lords, had gone far to

[&]quot;"Vision of Piers, the Plowman" (Passus X., 72-87), written about A.D. 1390. A few modern words have been substituted for others which have become obsolete.

paralyse that constant pitiless discipline by which alone serfdom could be made to pay. Above all, a steadily increasing number of the villagers had bought freedom from forced labour and held their lands at a money rent, or, having no land, were serving for a money wage. The towns were growing larger, wealthier, and more free, and that greatest of all revolutionary forces, a rise in the general standard of life, was beginning to make itself felt. It was therefore on a social system already showing signs of disintegration that there fell the Black Death, when it slew one-half of the population of England (1348). From that time forward serfdom was doomed. The King's Council, frightened by the rise of wages which instantly followed the Death, attempted indeed through the "Statute of Labourers" (1349) to abolish at one stroke all personal freedom below the freeholding class. "Every man and woman," they declared, "of our realm of England, of whatever condition he be, free or bond, able in body and within the age of three score years, not living by merchandise or exercising any craft, nor having of his own whereof he may live, nor land of his own about whose tillage he may himself occupy, and not serving any other, if he in convenient service (his estate considered) be required to serve, he shall be bounden to serve him which so shall him require; and take only the wages which were accustomed to be given in the places where he is to serve the twentieth year of our reign of England (1347) or five or six other common years next before, provided always that the lords be preferred before all other in retaining their bondmen or their land-tenants in their service." Thirty years later came the Peasants' Revolt, under Wat Tyler, to quicken the change. The king's troops could conquer the peasants, but they could not conquer the fact that free labour now paid better than bond. John Smyth, the old steward of the Lords of Berkeley, describing long afterwards the "husbandries" of Lord Thomas of Berkeley at the end of the fourteenth century, says: "Then began the times to alter, and he with them (much occasioned by the insurrection of Wat Tyler and generally of all the commons of the land). And then instead of managing his demesnes in each manor with his own servants, oxen, &c., under the oversight of the reeves of the manor . . this lord began to take in other men's cattle into his pasture grounds by the week, month, and quarter and after, in the reign of Henry IV., let out by the year still more and more by the acre. . . But for the plough none gaineth thereby but he that layeth his eye or hand daily upon it."*

Throughout the fifteenth century the improvement in agriculture which free labour rendered possible made the rents, at which services were commuted or land held, constantly easier to pay, and the wages of agricultural labourers bought more food than they have

^{* &}quot;Lives of the Berkeleys." Vol. ii., p. 6.

ever bought since. This delayed for a time the appearance of those darker social symptoms which a system of free contract in agriculture has always tended to produce. The many laws which were passed during the fifteenth century to regulate the condition of agricultural labour were merely cruel and useless attempts to bring wages back to their old level, or to prevent the labourer from moving in search of work, or living expensively, or apprenticing his children to the town crafts.

The old German rhyme which says that "when the peasant has money the whole world has it" was certainly true of this time. The towns, through their rapidly growing commerce and the increased demand for their manufactures, enjoyed a full share of that general prosperity which the Wars of the Roses and the occasional confusion of the central government did little to check. Casual distress of course even in times of prosperity is an ever-present fact of town life, but the alms of the church were supplemented in the fifteenth century by a system of "hospitals" and almshouses often officially administered by the town authorities, and by occasional gifts, such as "twelve pence to the poor man keeping the poor child," from the town chest.*

In the sixteenth century, however, all the problems which the period of prosperity had delayed presented themselves with a tragic intensity that compelled the attention of the whole nation. landowners found that the system of free labour gave them a more absolute power in the management of their land than they had ever enjoyed under the old system of serfdom. The rise of the wool industry tempted them to dispossess by force or fraud the customary tenants of their holdings, to turn the arable land into pasture, and to lower wages by dispensing with labour. At the same time the fall in the value of money, due at first to depreciation of the coinage and afterwards to the importation of silver, while it made customary rents almost ridiculously low and put the copyholder into as good a position as the freeholder, reduced the already small earnings of landless labourers down to the starvation point. Professor Ashley is probably right in his contention that the dissolution of the monasteries between 1536 and 1539 rather threw upon the roads a number of sturdy beggars than deprived the industrious poor of a means of assistance in hard times. Yet the dissolution at least destroyed the only widespread organisation which made any pretence of dealing with the problem, and the State was now left to face a condition of things which was becoming every year more intolerable. A vigorous discussion on the proper principles of poor relief was, during the Reformation, carried on throughout Europe both by Catholic and reforming theologians. By this discussion, and by the

^{*} Mrs. J. R. Green's "Town Life in the Fifteenth Century." Vol. i., p. 41.

action of some of the continental cities, the distinction between "deserving" and "undeserving" poverty had been made familiar to every European statesman, and in 1530 an Act was passed ordering that "aged and impotent persons" should be licensed to beg within a defined district, and that beggars "whole and mighty in body and able to labour" (giving alms to whom was forbidden under penalties) should be flogged at the cart-tail and sent to the places where they were born. This was repealed in 1536 by an Act ordering that the officers of towns and parishes shall succour the impotent with voluntary charitable alms in such wise as none of them shall of necessity be compelled to wander and go openly in begging, and somewhat vaguely providing that valiant beggars shall be set and kept to continued labour in such wise as they may get their own living with the continued labour of their hands. On these lines a subsequent series of Acts proceeded gradually, introducing more and more compulsion into the gathering of "voluntary charitable alms," taking the collection of them from the church into the hands of the civil authorities, and providing more and more definitely for the means of setting the able bodied to work. Finally the great "Act of Elizabeth" (1601) established the complete system of parochial poor law as it existed almost unchanged for the next two centuries. By this Act two or more "substantial householders" were to be yearly. nominated by the Justices of the Peace to serve as Overseers of the Poor in each parish. The overseers were to raise "weekly or otherwise, by taxation of every inhabitant, such competent sums of money as they shall think fit," for (a) setting to work the children of all such whose parents shall not be thought able to keep and maintain them; (b) for setting to work all such persons married and unmarried having no means to maintain them, and who use no ordinary and daily trade of life to get their living by; (c) for providing a convenient stock of flax, hemp, wool, thread, iron, and other ware and stuff, to set the poor on work; (d) for the necessary relief of the lame, old, impotent, blind, and such other among them being poor and not able to work. Children whose parents cannot maintain them are to be apprenticed till the age of four-and-twenty years in the case of boys, and twenty-one years or the time of marriage in the case of girls. The overseers may, with the leave of the Lord of the Manor, erect houses for the impotent poor on any No provision is made for the erection of any waste or common. house in which work may be done, and it was evidently intended that the flax, hemp, &c., should be worked up at the houses of the poor. But an Act of 1576 had already empowered the justices of each county to erect "houses of correction" in which "such as be already grown up in idleness and so rogues at this present" should be set to work under strict prison discipline; and the justices were now

ordered to commit to these places or to the common gaol those who refused to work on materials provided by the parish. What they had to expect at the houses of correction may be seen from one of the rules of the Suffolk House for the year 1589—"Item, it is ordered and agreed upon that every strong or sturdy rogue at his or her first entrance into the said house shall have twelve stripes upon his bare skin with the said whip provided for the said house; and every young rogue or idle loiterer six stripes with the said whip in form aforesaid. And that everyone of them, without fail, at their first coming into the said house, shall have put upon him, her, or them some clogs, chain, collars of iron, ringle or manacle, such as the keeper of the said house shall think meet." No wonder that Mr. Hext, J.P., of Somersetshire, says that when he sent about this time "divers wandering suspicious persons to the house of correction, all in general would be seech me with bitter tears to send them rather to the gaol."

The new Act was only gradually carried out. In 1622 "A Wellwisher" complains, in a tract called "Grievous Groans for the Poor," that "though the number of the poor do daily increase, there hath been no collection for them, no not these seven years, in many parishes of this land, especially in country towns; but many of those parishes turneth forth their poor, yea and their lusty labourers that will not work, or for any misdemeanour want work, to beg, filch, and steal for their maintenance, so that the country is pitifully pestered with them; yea and the maimed soldiers that have ventured their lives and lost their limbs on our behalf are also thus requited.

So they are turned forth to travel in idleness (the highway to

So they are turned forth to travel in idleness (the highway to until the law bring them unto the fearful end of hanging." In Southampton, and probably in many other places, voluntary contributions continued to be collected by the churchwardens until the middle of the seventeenth century instead of the compulsory rate ordered by the Act, and many parishes kept to the plan laid down in an Act of 1547, and sent round the paupers to be employed by the ratepayers in turn. In particular, that part of the Act which related to the provision of work seems to have been only partially and unsuccessfully adopted from the first; and indeed the experiment of handing out a stock of flax or wool to be worked up by unemployed agricultural labourers, tramps, and village drunkards, without supervision or the means of preventing theft, must often have been abandoned as soon as it was tried. Nor was that Act of 1628 likely to be more successful which permitted the churchwardens and overseers of the poor to establish regular parish workshops, and "set up, use, and occupy any trade, mystery, or occupation, only for the setting on work and better relief of the poor." The overseers were indeed, as a rule, either hard-worked farmers, who held their

office unwillingly and did not wish to add to its duties, or small manufacturers who would not be eager to establish a competing business.

The county houses of correction, on the other hand, being regular workhouses of a somewhat brutal type, did exercise a very real deterrent effect. But they were expensive, and the Justices of the Peace in Quarter Sessions have always been anxious to keep the county rate as low as possible. The Act of 1601 assumes their existence, but in 1596 it was stated that they had been "put down in most parts of England," * and an Act of 1609, after complaining that the "said houses of correction have not been built," orders that they shall be provided for every county, "together with mills, twines, cards, and such like necessary implements to set the said rogues, &c., on work." This, however, was not done in all counties, and the magistrates seem often to have fallen back upon the savage old vagrant laws, which required less troublesome and expensive arrangements. "I have heard the rogues and beggars," says a writer in 1646, "curse the magistrates unto their faces for providing such a law to whip and brand them and not provide houses of labour for them." + But the houses of correction were still thought of as a necessary part of the poor-law scheme, and the word "workhouse," when used by contemporary writers, refers to the county establishment and not to the little parish poorhouses.

Indeed almost as soon as the Act of Elizabeth began to be tested by experience it seems to have been felt that the fourteen thousand odd English parishes, with their varying and often tiny populations, were extremely inconvenient units for the administration of a system which needed detailed skill and watchfulness and a thorough grasp of principle if it was to succeed at all. In the great plan of centralised poor-law reform which Charles I. issued in the form of a commission to the Privy Council, the almost obsolete police division of the hundred is taken as the main unit of supervision. The magistrates are to gather together once a month the parish officers of each hundred, and examine them as to how far they have done their duty in the execution of the laws, reporting the results of their examination and the penalties they have inflicted to the sheriff, who is to forward their reports to the Lords Commissioners of the Privy Council. But while this sort of routine office work was just that which the county justices, already almost entirely unpaid, would be least likely to carry out with anything like regularity, Charles's whole scheme was certain to be resisted as part

^{*} Rilton Turner. "History of Vagrants," p. 125. † Quoted by Eden. Vol. i., p. 169.

of an unconstitutional attempt to legislate without Parliament. It therefore had no effect, and the thirty thousand overseers continued

to administer the law according to their own lights.

During the Civil War the law remained unchanged, and the Settlement Act of 1662, which followed directly upon the Restoration, simply gave effect to the evil tendencies which were the certain result of parochial administration. The old laws by which the lord was enabled to recapture his escaped serf had left traces upon various Vagrant Acts in the form of ill-defined directions that rogues and beggars should be sent back to the places in which they were born or had lived. The notion, however, of the wandering labourer as a valuable piece of property had now, after three centuries of free labour, given way to the proved experience that under modern social conditions he is a certain source of expense to any district which may have to deal with him. Therefore the landlords were now as anxious to force the loosely attached members of the population into each other's villages as they had been to claim them for their own. The Act of 1662 provided a regular machinery for so doing. recites that "by reason of some defects in the law, poor people are not restrained from going from one parish to another, and therefore do endeavour to settle themselves in those parishes where there is the best stock [of materials for parish manufacture], the largest commons or wastes to build cottages, and the most wood for them to burn and destroy; and, when they have consumed it, then to another parish, and at last become rogues and vagabonds, to the great discouragement of parishes to provide stocks where it is liable to be devoured by strangers." It therefore enacts that the justices may remove out of a parish any newcomer who is not occupying a tenement worth ten pounds annually, unless he bring a certificate from the minister and one churchwarden and overseer of his former parish acknowledging their responsibility for his relief, or can induce some inhabitant to become surety for any expense which he may cause. This Act at once divided England into fourteen thousand warring communities, each determined, at whatever cost to the national welfare, to throw its burden of involuntary charity upon its neighbour. A huge code of case law, developed by hundreds of judgments and appeals, was founded upon the muddled sentences of the original Acts. Every possible subtlety as to the effect of every variety of hiring or apprenticeship, or the validity of indentures given by a parish where the churchwardens and overseers were the same persons, was defined to a hair's breadth, while the incurable vagrant, the too ambitious labourer, the widow, the lunatic, the invalid, the miserable causes and instruments of this warfare, were carted and whipped and scorned and driven backwards and forwards from one cruel little parish to another.

The outburst of brutal materialism which followed the return of Charles II. seems to have checked even the attempts which had been made by certain of the great towns to deal with their poor on some more reasonable plan than a necessarily vain struggle to drive them over the town boundaries. During the Commonwealth there had existed a "corporation for the poor of London," whose president was the Lord Mayor. Two broadsheets issued by this body in 1655 are preserved in the British Museum. In these the governors announce that they do at present by the pious assistance of voluntary charity "maintain and educate about 100 poor children in learning and arts," and that they have from year to year given public notice of their having a stock of flax, hemp, and tow at their two workhouses at Blackfriars and in the Minories, and that "many hundreds of poor people and families are employed by the said corporation in the manufactures of spinning hemp, flax, and tow, and weaving of it into cloth." But the "pious assistance" seems to have come to an end at the Restoration, and clauses were inserted in the Act of 1662 giving powers for the reconstruction of the corporation and the levying of a special rate on the metropolitan parishes. These powers were, however, not exercised till 1696, when the end of the seventeenth century had brought about a reaction in favour of serious social and religious endeavour. In that year, William III., when appointing his new Board of Trade, instructed them to "consider of proper methods of setting on work and employing the poor, and making them useful." In the same year a Bristol merchant named John Cary proposed the erection of a workhouse for the united parishes of Bristol. Two years later a new "corporation" was formed for London, and several houses in Bishopsgate Street were bought. Into these houses were taken "the poor distressed children that lay up and down in the streets of the city," and others for each of whom the churchwardens of the various city parishes paid a shilling a week. There were about four hundred in all, and one nurse was provided for every thirty "to see that they are well fed, clothed, and lodged," as well as a labour master to superintend the spinning work, and a school master and mistress to teach them to read and instruct them in their catechism. The expense outside the contributions of the parishes was borne by voluntary charities and "that little which they all earn by their labour." It was noticed as an effect of this that in 1702 the number of young criminals that were arraigned at the session house had much decreased. Another part of the establishment was inhabited by the infirm and sick whom "four able and generous physicians and a skilful surgeon" attended gratis, the medicines being given by the Apothecaries' Company. Work for the able bodied was provided in the manner ordered by the Act of Elizabeth, the corporation advertising that they "deliver

out at their workhouse, five days a week, wool and flax to all who come for it, to be spun at their own habitations, and pay the best prices that are anywhere paid." Beggars, vagrants, and those who refuse to work are kept in the house and put to such hard labour that "many have voluntarily entered themselves in the late king's and the queen's service, and others have transplanted themselves to the Western Plantations."

Meanwhile Cary, at Bristol, had succeeded after many difficulties in obtaining a private Act incorporating all the town parishes into a union, and had brought his fellow townsman to share for the moment his own warm philanthropy and sanguine hopes of social justice. A workhouse was established of which he writes a few years later: "The success hath answered our expectation; we are freed from beggars; our old people are comfortably provided for; our boys and girls are educated to sobriety, and brought up to delight in labour; our young children are well looked after, and not spoiled by the neglect of ill nurses; and the face of our city is so changed already that we have great reason to hope that these young plants will produce a virtuous and laborious generation, with whom immorality and profaneness may find but little encouragement."

The example of Bristol was followed by Plymouth, Worcester, Hull, Exeter, and other places, all of which obtained private Acts for the erection and support of workhouses within the next few years. The results, both in suppressing vagrancy and keeping down the rates, were so good that in 1722 a general Act was passed allowing parishes either singly or in combination to build workhouses, and to refuse relief to all who would not enter them. At once a very large number of workhouses were erected in many parts of England, and particularly in the suburban parishes of London. Their first effect, especially where the rule refusing outdoor relief was strictly enforced,

was shown in a very considerable decrease of the rates.

Now those who administered the workhouses were under no illusion as to the cause of this decrease. In a book published in 1725, describing about a hundred of the newly-established houses, a correspondent from Rumford writes: "I must, sir, observe to you that the advantage of the workhouse to the parish does not arise from what the people do towards their subsistence, but from the apprehension the poor have of it." The Oxford correspondent writes: "Some who received alms of the parish appear to have money of their own, and strive to work to keep themselves out of these (as they call them) confinements." Of Maidstone it is said: "Great numbers of lazy people, rather than submit to the confinement and labour of the workhouse, are content to throw off the mask and maintain themselves by their own industry."

But the legislature and the governing classes generally were still

dominated by the fixed idea that the work of paupers ought to be actually profitable, and would be profitable if it were carefully organised. Sir Matthew Hale, one of the wisest and best men of his time, in his "Discourse concerning Provision for the Poor," written some time before 1662, advocates the building of workhouses for unions of parishes, and the employment of the poor in them. "By this means," he says, "the wealth of the nation will be increased, manufactures advanced, and everybody put into a capacity for eating his own bread." John Locke's report to the Board of Trade, written in 1697, contains exact calculations as to the value of the labours of young children and of those who being decayed of their full strength could yet do something. Even Henry Fielding, with all his experience as a police magistrate and his own practical good sense, suggested in 1753 that the workhouse might be made a place where industrious destitute men might support themselves by the sale of their work; and lesser men than Hale and Locke and Fielding, issued, from the middle of the seventeenth till the end of the eighteenth century, a constant succession of pamphlets advocating various schemes for "employing the poor to profit" generally by engaging them in the woollen or linen manufactures. Rose-coloured accounts were given of the commercial success of such experiments in Holland, and the existence of a destitute and degraded class who may be set to work was sometimes represented as a positive advantage to a nation. "We have wool enough," write "Several Well-wishers" in 1679, "fullers earth enough, vagrants, petty felons, nurses of debauchery, &c., sufficiently enough to make cloth enough to revive the glory, wealth, strength, and safety of the whole nation."* This idea perverted the administration of the new workhouses from their very beginning. The good moral and social effects of a well-managed workhouse were little thought of, while elaborate accounts were annually required of the cost of materials and the profit from the work. Boys who were eventually to be sent to sea were kept all day long for years at oakum-picking or twine-spinning, although their labours "did not more than pay the charge of the masters of the children's work, the wheels, and the waste they made." † Defoe indeed objected, in his tract "Giving alms no charity" (1704), to the whole plan of parish work. "Suppose now," he said, "a workhouse for the employment of children sets them to spinning of worsted; for every skein of worsted these poor children spin there must be a skein the less spun by some poor person or family that spun it before." His protest. however, seems to have had little effect, though a clause in the private Act for Worcester, "that no cloth or stuff, either woollen or

^{*} Proposals for promoting the woollen manufacturing promoted by "Several Well-wishers," 1679.

[†] An account of several workhouses, 1725.

linen, manufactured in the workhouse or houses of correction shall be sold by retail within the city of Worcester and the liberties thereof," was a further warning that the traders might object to any serious extension of the system. But when the annual accounts of every corporation showed unanswerably that even the best-managed workhouses were certain to be a source of heavy expense, a general reaction followed in favour of the old system of parochial selfishness Of Bristol, where John Cary had begun his and brutality. experiment thirty years before with such splendid hopes, it is said, in 1728: "The magistrates have that city in such excellent regulation that foreign beggars dare not appear; they are not troubled with obnoxious sights so common with us, their workhouses are terrible enough to them, for as soon as any of them are espied in the city they are taken up and whipped."* The explanation is given by another writer in 1732. "As soon as the poor children," he says, "came to do anything tolerably well, that they might have been assisting to the younger and less practised, they went off to sea, or were apprenticed in the city, by which means the public were so far benefited, though the corporation bore the loss of the charge of teaching them, and of all the tools with which they were to work and of the materials for it, for they made nothing perfect or merchantable from their work but only spoiled the materials."

With this reaction from the workhouse system of 1722 all consistent principle or generous motive disappeared for a time from the administration of the Poor Law. Dr. Burn, writing in 1764, describes in a long passage of stern sarcasm the conception which the country overseers had formed of their duties towards the poor— "to prevent them from coming into the parish to send them out into the country a begging . . . to bind out poor children apprentices, no matter to whom or to what trade, but to take especial care that the master live in another parish . . . to pull down cottages, that is to depopulate the parish in order to lessen the poor rate." But since all parishes were equally eager to get rid of their responsibility, it was impossible for any to succeed in doing so, and every village had its list of "pensioners" receiving their weekly doles, and its frowzy little poorhouse occupied, as the report of 1834 afterwards described it, "by three or four dissolute

families mutually corrupting each other."

In London things were much worse. There in the first quarter of the eighteenth century had begun that ghastly period of cheap gin and shameless drunkenness, the horror of which still lives in Hogarth's engravings. Already in 1715 a Committee of the Commons had reported that the beggars in the streets were generally

^{• &}quot;Treatise on Trade and Navigation." Joshua Gee, 1728. Quoted by Eden, vol. i., p. 282.

obliged to spend what they had taken "at some tippling house kept by the beadles, or by their friends or relations, who sell unwholesome spirits, which carry off multitudes of them every year." In 1773 the inmates of the workhouse itself, "situated, perhaps, in a narrow alley, with dirt and filth before the dwelling, and hard treatment, disease, and vermin within it," are described as being "made a job of by some of the parish officers, stripped of their little remains by the pawnbroker . . . and accustoming themselves to gin drinking to

serve them as an opiate against reflection."*

The case of the children was even more lamentable. In 1715, before the great majority of the Incorporated Workhouses were built, a Commons Committee reported that in London "a great many poor infants and exposed bastard children are inhumanly suffered to die by the barbarity of nurses, who are a sort of people void of commiseration or religion, hired by the churchwardens to take off a burden from the parish at the cheapest and easiest rates they can; and these know the manner of doing it effectually, as by the burial books may evidently appear." In 1767, after the failure of the Incorporated Workhouses, another Committee reported that of the children born in workhouses or parish houses or received there under twelve months old in the year 1763, they were only able to trace seven in a hundred as being alive in 1765.

But the worst was yet to come. The first sixty years of the eighteenth century had been a period of good harvests, low prices, and steady wages. The last forty years of the century were marked by scanty harvests and famine prices, by the industrial dislocation resulting from the sudden development of machinery, and towards the end by an unsuccessful war with Revolutionary France abroad, accompanied by fierce sedition and tyrannous coercion at home.

In the earlier years of this dreadful period some attempt was made to reform the Poor Law on the lines suggested by actual experience. The inconvenience of the parochial area had been constantly pointed out, and by Gilbert's Act (1782) parishes were permitted to form unions and build joint poorhouses. Only the aged and infirm, however, were to be sent to these houses, and in the Gilbert unions (which included about a thousand parishes) the principle was deliberately adopted that work was to be found in the neighbourhood for the able-bodied, and that any difference between their wages and the sum necessary for their maintenance was to be made up from the rates. In 1790 another Act was passed attempting to create a system of inspection of poorhouses by justices and the clergy. But as soon as the French War had begun (1793) the Poor Laws began to be administered in a spirit of blind panic. By this time the justices

 $^{^{\}bullet}$ "Considerations on the Present State of the Poor" (anon., probably by R. Potter), 1773.

had taken upon themselves most of the responsibility for the amount and character of the relief granted by the parish overseers. It had been originally intended by the Poor Law of Elizabeth that they should, through their right of appointing the overseers, exercise a general control over the system, but an Act of 1691 had been so interpreted as to give them an unlimited right of ordering relief

themselves, in spite of the opposition of the overseers.

In 1795 the magistrates of Berkshire "and other discreet persons" at a meeting held at Speenhamland, near Newbury, announced that they would make an allowance in aid of wages to "all poor and industrious men and their families," raising the household income in each case to a minimum varying with the price of bread. Next year the clauses of the Act of 1723 allowing parishes to offer the workhouse test instead of outdoor relief were definitely repealed. And so began the pauperisation of the English rural population. relief, in theory at least, had been confined to the exceptionally unfortunate. Now the rates were to become part of the normal industrial system; farmers discharged their men in a body to take them back next day as paupers with part of their wages paid by the The position in the pauperised parishes of labourers residing but not "settled" there, of unmarried men who only received a single "allowance," of those who still felt an obstinate repugnance to parish pay, or had made the overseers or magistrates their enemies, became every year more intolerable, while the wife of the soldier serving abroad, who had been told to look on relief from the rates as her just right, the self-respecting farm hand, the incurable loafer, the consumptive, the village prostitute, all were confused in one degrading system of "allowances," "bread scales" and "head money.

The whole story of the administration of the Poor Law at the end of the eighteenth and the beginning of the nineteenth century is a crucial instance of the extreme danger of class government. The English landed gentry of that time accepted with a loyalty that has always astonished foreign observers the tradition that required them to spend as members of Parliament or as magistrates a large section of their waking hours in laborious and unpaid public work. Some were mere bullying brutes, like Fielding's Squire Western, with whom "to keep their own parish under their own government and to prevent other persons from exercising authority there" was, as a member of Parliament writes in 1751, "sufficient motive for their official work. Many, however, were just and high-minded men, and most seem to have had a dogged notion of carrying out their duty. But the strongest instinct in any class is the instinct of self-

^{* &}quot;Considerations, &c., for the Better Maintenance of the Poor," by Charles Gray, M.P. for Colchester, 1751.

preservation, and during the years following the destruction of the French aristocracy, when every campaign of the victorious French armies resulted in the sweeping away of feudal power in yet another European kingdom, this instinct overmastered all others. The people must be bribed as well as coerced into quiescence. "It was deemed wise by many persons at this time to present the Poor Laws to the lower classes as an institution for their advantage peculiar to this country, and to encourage an opinion among them that by this means their own share in the property of the kingdom was recognised."* In the same way one may perhaps detect, in the eagerness to grant bread allowances, a fear lest the temporary high price of food shall be used by the labourers as a reason for extorting

a permanent rise of wages.

Some, however, of the recklessness with which outdoor relief was then thrown open to all comers must have been due to genuine The sufferings of that time were obvious enough to move anyone who chose to open his eyes, and the outburst of social compunction which marked the French Revolution must have influenced many who were scarcely conscious of its source. feeling of kindliness must have dictated that Act of 1792, which forbade for the first time the whipping of female vagrants, or the other Act of the same year which dealt with the condition of parish apprentices. The Act, indeed, of 1696, which empowered the parish authorities to force apprentices upon unwilling masters, and that of 1703, which required all ships of over thirty tons burden to take one apprentice from the parish, must have given rise to thousands of unnoticed tragedies. Often the fate of those who were voluntarily taken by their masters was not much better. Mr. Purfeet, of Stroud, in 1723 complains of the practice of putting out children with little money "to sorry masters, that 'tis little better than murdering them." In 1747 the justices were permitted on receiving a complaint to inquire into the treatment of any apprentice "upon whose binding out no larger sum than £5 was paid," and to discharge him if necessary from his indentures. It was found, however, that masters deliberately illtreated their apprentices in order that, having received and spent the fee, they might be released from further responsibility. Now, therefore, the justices were given power to forbid all assignments of apprentices of which they did not approve, and to compel a brutal master to pay £10 towards the cost of new indentures. The new Act of 1792 had, however, but little effect. In 1802 the sickening cruelties inflicted on the parish apprentices who were sent from the South of England to work in the Lancashire cotton mills brought about another Act providing for periodical inspection. In 1810, Crabbe,

^{* &}quot;Report of the Poor Law Commissioners," 1834, p. 70.

who put into the form of verse a minuteness of social observation worthy of Mr. Charles Booth at his best, described how Peter Grimes, the boatman, treated his wretched little victims:—

Peter had heard there were in London then-Still have they being !--workhouse-clearing men, Who, undisturbed by feelings just or kind, Would parish boys to needy tradesmen bind; They in their want a trifling sum would take, And toiling slaves of piteous orphans make. Such Peter sought, and when a lad was found The sum was dealt him, and the slave was bound. Some few in town observed in Peter's trap A boy with jacket blue and woollen cap; But none inquired how Peter used the rope, Or what the bruise that made the stripling stoop; None could the ridges on his back behold, Nor sought him shivering in the winter's cold; None put the question—"Peter, do'st thou give The boy his food? What, man! the lad must live; Consider, Peter, let the child have bread, He'll serve thee better if he's stroked and fed!" None reasoned thus - and some, on hearing cries, Said, calmly, "Grimes is at his exercise!

More successful was another well-meant Act of 1795, which repealed the scarcely credible laws allowing parishes to remove industrious labouring families on the plea that they might become chargeable. Further, "since poor persons are often removed or passed to the place of their settlement during the time of their sickness, to the great danger of their lives," it enacted that the justices shall suspend all orders of removal till the poor person shall be fit to travel. It was not till 1809 that justices were forbidden to remove healthy members of a family while keeping the sick or dying behind.

But the mingled fears and benevolence of the time found their fullest expression in the great Bill of one hundred and thirty clauses, which was drawn up under Pitt's superintendence during the year The speech in which Pitt first outlined his Bill is a noteworthy instance of the intellectual confusion of the time. He was criticising (Feb., 1796) a proposal of Whitbread's to revive that Act of 1563 which, in continuance of the old Statute of Labourers, had ordered the Justices of the Peace to regulate the wages of agricultural labour. Pitt had carefully read Adam Smith's "Wealth of Nations," where such laws are denounced as a gross interference with personal liberty, and practically repeated Smith's arguments as against Whitbread. The Poor Law itself, however, is only once mentioned in the "Wealth of Nations," in a passage strongly condemning the stupidities of the old Law of Settlement. Pitt had already reformed that law in the preceding session, and he again denounced the regulations which "prevented the workman from going to that

market where he could dispose of his industry to the greatest advantage, and the capitalist from employing the person who was qualified to procure him the best returns for his advances." he was too busy a man, and had taken to active political life too young, to be able to think out for himself the policy of poor relief which was bound to follow from the principles of laisser faire. Therefore, in the absence of any direct advice from Adam Smith, he drew up his own proposals on the lines of Sir M. Hale and John Locke, declaring that "upon such authority he had no difficulty in recommending the plan to the encouragement of the legislature." His Bill, accordingly, though introduced by an appeal to the new doctrine of individual liberty, was in reality a mixture of the old profit-making ideas with the dole system begotten by the fears and loose good nature of the country gentlemen of the day. The first clauses contained a scheme for the establishment of "Schools of Industry" in all parishes or unions of parishes, for employing "all or any poor persons, as well grown up persons as children, who shall want relief in the same parish and who cannot conveniently work at home," part of the expense of erection and furnishing of such places being provided by an owner's rate to be paid by occupiers and by them to be deducted from their rents. Elaborate directions are given as to the distribution of the "profits arising from the labour of the poor," and this part of the scheme assumes that the justices and overseers could, if they would, so organise the indigent as to make them both support themselves and be a source of wealth to But this assumption is apparently only half the community. believed in, for poor persons are also to be allowed to work for private employers at an insufficient living wage, and to have their wages made up from the rates to the "full wages usually given in such parish." Parish funds are further to be created (with the aid of the rates and of voluntary subscriptions) into which the poor may pay and so secure sick benefits and old-age pensions. When any poor person "shall be possessed or can obtain possession of land, or is entitled to common of pasture sufficient to maintain a cow or other animal yielding profit," any two Justices of the Peace are to be allowed to grant him a "cow or other animal" from the rates, or to direct "security to be given for the rent of such land." possession of real estate or visible property of the amount of £30 be any bar to the receipt of relief if such property take the form of a tenement or cottage, or tools or household furniture, wearing apparel or other necessaries.

Pitt at that time was nearer to absolute power than any English statesman has been since or perhaps before, and his Bill passed in the spring of 1797 as far as the report stage with no division except in committee. But vigorous petitions poured in from parishes and

unions all over the country protesting against the enormous increase of rates which must result from its becoming law. At the same time Jeremy Bentham, who understood, if anyone did, the political implications of the new industrial economics, wrote certain observations on the Bill which he sent in manuscript to Pitt, and possibly, after his usual fashion, to most of the leading statesmen of the day. Bentham afterwards declared that this criticism of Mr. Pitt's "plan for throwing the parish upon the parish," with its genial humour, its air of modest puzzlement, and its scorching logic, powerfully contributed to secure the abandonment of the measure. Perhaps Pitt himself, who certainly was quick enough to take a point, was really convinced. In any case the Bill was dropped with the same matter-of-course unanimity with which

it had been accepted.

For the next twenty years Poor Law legislation proceeded on no discoverable principle whatsoever, excepting perhaps a steady tendency to increase the authority of the magistrates by empowering them to alter rates and strike off names from the rate book, to audit accounts, remodel the rules of workhouses, and order relief more easily against the wish of the overseers. -Even when, in 1817, the first of a long series of Parliamentary Committees began to take evidence on the question, no consistent opinion emerged as to the causes or cure of the abuses which everyone acknowledged. The report of the Commons Committee of 1817 uses arguments aimed at the very existence of a Poor Law: "By diminishing the natural impulse by which men are instigated to industry and good conduct, by superseding the necessity of providing in the season of health and vigour for the wants of sickness and old age, and by making poverty and misery the conditions on which relief is to be obtained, your committee cannot but fear . . . that this system is perpetually encouraging and increasing the amount of misery it was designed to alleviate." But the same report endorses Locke's scheme of labour schools for the children of the poor, by which "the mother will be eased of a great part of her trouble in looking after and providing for them at home, and so be at more liberty to work," and the children "from their infancy be inured to work." Locke had admitted that the children's work might not pay at first, but had suggested, in a passage quoted by the committee, that if they are fed on bread and a little warm water gruel, and kept at work from three to fourteen years of age, "as much work being required from each of the children as they are reasonably able to perform, it will quickly pay its own charges with an overplus." In the same way, after stating the "wages-fund" theory in its crudest form and declaring that "by following the dictates of their own interests, landowners and farmers become, in the natural order of things, the

best trustees and guardians for the public," the report nevertheless recommends, in a somewhat hesitating way, the establishment of parochial farms. In 1818 a Lords Committee declared that the Poor Law, "interwoven as it is with the habits of the people," ought to be "essentially maintained;" while in 1819 a Commons Committee reported against any relief being given to the able-bodied at all. The battle, in fact, between the old tradition and the new

"Political Economy" was still undecided.

Meantime, while Parliament was trying to make up its mind, the legislation of 1796 and the magisterial policy which dictated the Speenhamland edict were steadily working out to their logical The rates actually expended on the poor, which had been under £2,000,000 in 1754, were over £4,000,000 in 1803, and were very nearly £8,000,000 in 1818. Better times and a temporary improvement in administration reduced them to about £6,000,000 in 1825, but in 1832 they were again over £7,000,000, being 10s. per head of the population, as compared with about 6s. in 1891. But poor as the country then was, the actual burden of the rates was a small evil compared with the certainty that almost all this expenditure was doing more harm than good. The State in the first third of the century, like the Church in the Middle Ages, "did but maintain the poor which it made." Here and there the general laxity of administration might enable a clever boy to be apprenticed to a skilled trade, or an aged couple to spend their last days in peace, or an energetic workman to tide over a period of ill-health. But, as a rule, the easy bounty of outdoor relief could only be accepted at the price of life-long degradation. The nominal cost of the system was probably at least doubled by the loss on the ineffective labour of those whom the "roundsmen" system billeted upon all the larger ratepayers in pauperised parishes, or part of whose wages were paid by the rates. Farmers and landowners were beginning to look upon such a condition as normal, and even to fear the effects of freedom, and to complain that "high wages and free labour would overwhelm them." Imprisonment and actual flogging were reappearing as the only means of enforcing industry, and the Poor Laws, themselves the result of liberty, seemed likely to reproduce the old serfdom whose tradition had never entirely died out from the country side. And those who were not supposed to work, the women whose income increased with the growth of their illegitimate families, the children and the aged, herded together in the filthy comfort of the fever-saturated poorhouse, were even worse off than the rest.

But the contest was near its end. "Political Economy" had by this time consolidated itself in the writings of Ricardo and MacCulloch, and James Mill. Malthus had demonstrated the important part which the struggle for life had played in the history

of human society as well as in the animal world. No member of Parliament could now repeat without criticism the light-hearted argument of Mr. Charles Gray in 1751, that the Poor Law "makes young laborious people venture to marry when nothing else would, and helps to propagate a race of the most useful subjects we have." The old ideas as to the profitable employment of the poor scarcely appear in the reports of the Commons Committees of 1824 and 1828, and having been rediscovered, without a suspicion of their past history, by Robert Owen in 1812, were now associated in men's minds with revolutionary schemes of equality.

At the same time the new doctrine that human society is best managed when no man is either hindered or helped in supporting himself and his family seemed to be justified by actual experience

in Poor Law administration.

In the parish of Southwell, near Nottingham, the rates had been already enormously reduced by the building of a prison-like workhouse and the exaction of labour, useless, perhaps, but severe and unpaid, as a condition of bare subsistence. Similar experiments with the same success had been tried in several other parishes.

The "laws of political economy" were vaguely felt to have established themselves in a position of gloomy orthodoxy, and when in 1832, during a lull in the fierce struggle for the Reform Bill, the Whigs in power appointed a Royal Commission on the Poor Laws, its strongest members were known and ardent partisans of the newly-accepted science. Their report, after two years of incessant labour on the part of the Commissioners and their paid assistants, was presented in 1834, and is still the most magnificent State paper in existence, admirable in form and crushing in argument. ended by recommending a radical alteration of the whole system. Parishes were to be formed, with or without their consent, into Unions, whose accounts were to be inspected and whose by-laws were to be drawn up by a body of three Commissioners sitting in London, and represented by travelling sub-commissioners in the Outdoor relief to able-bodied persons was to be prohibited. Finally, and chiefly, the whole administration of the law was to be regulated on the principle that "the condition of the paupers shall in no case be so eligible as the condition of persons of the lowest class, subsisting on the fruits of their own industry."

When the report was presented the legislative zeal of the Reformed Parliament had not yet been baffled by the calculated inactivity of Lord Melbourne and his colleagues. Lord Althorpe, in introducing a Bill founded upon the recommendations of the report, apologised for the existence of a Poor Law at all, and confessed that the "more strict principles of political economy prohibited the exercise of private charity itself." After this both Commons and

Lords seem to have thought that they were doing a comparatively moderate thing in passing the Bill, almost unchanged, by over-

whelming majorities.

The three Commissioners who were immediately appointed were gentlemen of respectable abilities and moderate political opinions, with a fanatical belief in the sufficiency of the new administrative principles, who were served by sub-commissioners still more enthusiastic than themselves. Their first three annual reports showed that the rates were rapidly falling, and that relief in aid of wages had almost entirely disappeared. The Commissioners arranged for the emigration of surplus population, especially widows with children, from the South of England to the factory districts of the They declared that "those who have been for years idling on the roads have at last gone out of the parish, and have found work at good wages," and that "every sort of profitable employment is now sought to be obtained for the children." They circulated pamphlets urging the labourers to join independent sick clubs, and obviously hoped that steady industry and voluntary mutual insurance would combine with growing independence of character and a wholesome fear of workhouse discipline to minimise, if not to abolish, the whole burden of public relief.

Difficulties, however, were not long in coming. The years 1834-1836 were prosperous, but 1837-1843 were years of great distress, greater than had been known since 1817. The rates steadily rose again from just £4,000,000 in 1837 to £5,200,000 in 1843. And the first beginning of the distress brought with it a great popular agitation against the new law. The fact that the Times and the leading Tory papers joined this agitation was probably due more to the desire for revenge which the Reform struggle had left behind it than to the fear of irresponsible centralisation, which was made the chief pretext of their opposition to the "Three Bashaws of Somerset House." But both among the people and the gentry there was a very real feeling of outraged humanity. Englishmen have always been much more ready to resent the deliberate infliction of even a moderate amount of carefully measured pain than any quantity of casual And if retired generals and admirals, after a day's shooting, will work themselves into a fury over the inoculation of anthrax into a single rabbit's ear, much more did the sight of old men and women being carried off from the old workhouses to the new, and the knowledge that they would there be intentionally placed in "undesirable or perhaps repulsive conditions," madden the crowds who saw them go, or heard the "hell-broth" gruel and the prison discipline of the "Bastile" described by practised orators.

^{* &}quot;History of the English Poor Law," by Sir J. Nicholls (one of the first commissioners). Vol. ii., p. 439.

The sordid abominations of the old law were soon forgotten, and the religious working man as well as the revolutionary Chartist loathed the new science which aimed, it was said, at reducing the population to Parson Malthus's standard by starving the paupers and separating man and wife in direct defiance of the word of God. Meanwhile the rates, in spite of the new law, were creeping up to their old level, and that great rise in agricultural wages for which the more sincere of the political economists had hoped did not take place. Freedom of combination was the first condition of such a rise, and on the very night after the new Poor Law was introduced, Lord Howick repeated the refusal of the Whig Cabinet to interfere with that flagrant sentence of transportation upon the Dorchester labourers which made combinations in agriculture impossible.

The opposition to the new law soon penetrated to the House of Commons, and it was with increasing difficulty that the powers of the Commissioners were from time to time renewed. At last, in 1847, the Poor Law Commission was dissolved, two out of the three worthy gentlemen of the day disappeared, having perhaps taken themselves rather too seriously as solitary protesters against an evil world, and an official Poor Law Board with a Parliamentary head was created. By 1871, so many duties of various kinds had been assigned to the department that it took the name of the Local Government Board, which it still retains. Sixty years have now passed since the new Poor Law was first enacted. During that time the great evil noted by the Commissioners of 1834, the relief of able-bodied men in aid of wages or as a premium upon idleness, has practically disappeared. Of the 728,042 persons in receipt of relief on the first of July, 1891, there were only 3,641 adult men in good health receiving indoor and 3,419 out-door relief-these last being helped only in some urgent crisis. There were at the same time not more than 6,351 women in health inside the workhouses, and 52,679. almost all of whom were widows, receiving relief outside. pauper population now consists of deserted or orphan children, helpless old men and women, invalids, and lunatics. number has remained wonderfully steady for the last twenty years, though it does not at present increase with the increasing population. But the amount spent in their relief does slowly increase, and there is no sign of that extinction of the poor rates which most political economists in the early part of the century looked for as a result of good administration. And in the light of the carefully recorded experience of sixty years the principle that "the situation of the paupers shall not be made really or apparently so eligible as the situation of the independent labour of the lowest class" is no longer looked upon as providing a simple and easy resolution of the whole problem.

The idea of profitable expenditure has come in to disturb the rigid debit and credit of the classical economy. It has come to be seen that each shilling which was saved by the deliberate dreariness and penury of the infirmary wards in the early union workhouses was a loss and not a gain to a community, seeing that the length of every illness was thereby increased. The pauper invalid is now generally handed over to a trained staff in a properly equipped hospital, with instructions that he is to be made well as soon as possible. Even in the case of the lunatics, to whom everything must be given and from whom nothing can be received, the community thinks well to spend freely on the means of mere happiness. In the treatment of the children the new economy and the old are still confused. It is true that no serious attempt is made to render their condition in the workhouse schools "really and apparently" worse than it was when they were starving in the But they are still too often fed on an intentionally monotonous diet, and clothed in an intentionally ugly dress, while more than half of them are still taught by underpaid masters, and examined, not by the regular educational authorities but by Poor Law inspectors, whose standard is intentionally low. But here, too, a rapid and general improvement both in practice and in intention is showing itself. Against such an improvement the older political economists, who assumed family solidarity as absolutely as they neglected social solidarity, would have protested as being likely to encourage parents to throw their children upon the rates; while they would have pointed to the deterrent system as likely to induce the parents to support their children by their own exertions. A saner view now recognises that the compassion of the community is sometimes more to be trusted than the compassion of the parent, and that when a father cannot or will not give his children food and education, it is sometimes better to feed and educate them ourselves, and then, if necessary, to apply to him the direct compulsion of a summons rather than the indirect compulsion of the knowledge that they are leading a prison life. The actual teaching of the pauper children will probably be taken over by the Education Department, and perhaps the healing of the sick by the sanitary authorities. Already in London the medical officer of health can send a fever patient directly to the hospitals of the Metropolitan Asylums Board without communication with the relieving officer. Possibly a day will come when the Chancellor of the Exchequer will deal directly with those old people, who with the aid of a Government pension can be trusted to look after themselves. Even then the Poor Law system, with its accumulation of stern experience, would still be required to fix and enforce the terms on which public charity can be safely granted to those who have strength to work.

A careful study of that experience has never been so necessary as at the present moment. Hitherto the whole administration of the Poor Laws has been studiously kept from popular control. new law of 1834 left to the justices the power of sitting and voting upon the Boards of Guardians, and ordered that the elected guardians themselves should be chosen on a high property qualification and by a plural property vote. The property qualification has been already practically abolished, and the passing of the Parish Councils Bill may at any moment abolish ex-officio membership and the plural vote. At the same time the great powers of the Local Government Board are controlled by a Parliament in which both parties are growing more and more democratic every year. great masses of the people can scarcely be said to have accepted the new Poor Law; certainly few of them now understand the circumstances which made its enactment at the time inevitable. no one of those who, at the Trades Union Congress of 1893, passed with acclamation a resolution calling on the Government to provide "honourable and profitable employment" for a million unemployed persons knew anything of the weary centuries of experiment which proved that in a free country work for work's sake may be necessary but cannot be profitable. But while there is much need for study and discussion, there is little reason for alarm and less for inaction. Experiments will again be tried, and modern statistical inquiry will after a few months ascertain and publish their results. the first it must be realised that a national system of relief is to be judged not by the "old" test of its effect in producing profitable work, nor by the "new" test of saving the rates, but by its success or failure in "comforting and helping the weak-hearted and strengthening such as do stand."

BY HENRY DYER, C.E., M.A., D.SC., MEMBER OF THE SCHOOL BOARD OF GLASGOW, ETC.

INTRODUCTORY.

NE of the most remarkable signs of the times is the great change which is taking place in social ideals. It is being recognised that individual and selfish interests are insignificant when compared with those of the community, and that if we look at our own lives, and all that concerns them in their physical, intellectual, or moral aspects, we see that we owe almost everything to the combined action of our predecessors and contemporaries. The growing tendency is, therefore, to appeal to our social instincts and to impress upon us the fact that the complete society of the present only is real, and that the parts of which it is composed, if they do not exist only in abstraction, at least are very subordinate in importance.

The consequence has been a great development in social legislation, and a growth in civic spirit. Hence the necessity for such a training, that every member of the community may be able to take a fair

share of the work which should fall to every citizen.

The ideal which should run through all our educational and social institutions should be that which was kept in view in ancient Greek education, the characteristics of which were unity, comprehensiveness, proportion, aimfulness. It extended to the whole human being, and endeavoured to bring the various elements of the nature of the students into complete harmony in view of an end. That end was the State, in which the individual citizen was expected to find a field for all his activities. We want men who are not only able to practice a craft, but can also intelligently cast their vote and take part in the religious and political struggles of the day, and share in all social movements. In order to do this they must be able to follow intelligently the developments of political, social, or economic history far beyond the limits of their own country. In short, they must have been fully trained in the duties, they must value the privileges, and be prepared, if necessary, to defend the rights of citizenship.

The share of the duties of citizenship which falls to individuals cannot be formulated by exact rules and regulations. depend largely on the special conditions, opportunities, and abilities of the persons concerned, but no one who is anxious to work need have any difficulty in finding some sphere of a social nature. The main fields for the exertion of social energy are the management of education, of parochial, municipal, or county, and in some cases of national and imperial affairs; but, in addition to these, there are many opportunities in smaller ways of helping on the progress of Improved means of recreation and enjoyment generally, humanity. and opportunities for all leading healthy and happy lives, open up wide spheres for social work. It should be strongly brought home to every citizen, through our educational institutions, churches, and other public agencies, that we owe almost all our personal advantages to the fact that we form an organised society, and that we cannot relieve ourselves of the responsibility of doing what lies in our power to advance the welfare of the community as a whole.

WHAT MAY BE DONE IN EDUCATIONAL INSTITUTIONS.

The great defect of our present system of education is that it is awanting to a very large extent in social aims, and is directed chiefly to the advancement of selfish interests. The idea of competition is instilled into the scholars instead of co-operation, and many of the evils of the present state of society are perpetuated and increased. If the education were made real and attractive, it would stir the intellectual activities of the scholars, and urge them on in their work without the artificial and wrong stimulus of competition with their neighbours. On the contrary, if the duty of mutual help and co-operation were prominently kept in view, not only would the educational results be better, but the whole tone of the schools would be immensely improved. Moreover, what was begun in the schools would be continued throughout life, and it would be distinctly recognised that it is the duty of all, not simply to live for themselves, or even for those directly dependent upon them, but that they ought to devote part of their energy to work which was for the benefit of the society in which they live, or of humanity generally. Hence the justification of the saying that all real social reform must begin in the schools.

Professor Bryce, M.P., has recently reminded educationists that reading and writing are no more education than the lane that leads into a field is the field itself; and you might as well try to feed a flock of sheep on the flints of the lane as send children away from school and hold them to have been prepared for their life's work with the mere possession of reading and writing. It is not the power of reading that makes the difference between one man and another so

much as the being taught what to read and how to read, that is having acquired the taste for reading and the habit of thinking about what is read. More and more it is our task to-day not to be content with having built schools and gathered children into them, and compelled their attendance by law, and relieved the parents from the payment of fees, but to widen the scope and deepen the grasp of the teaching given, leading the child to love knowledge, and forming in it wholesome tastes and high feelings. distinguished writer and politician dwells especially on the importance of the teaching of civic duty. He thinks that the schoolmasters should strive to make their pupils know what is best for their country as a whole; to make them willing to place its interest above party feeling or any other sectional passion or motive; to be willing to take trouble, personal and even tedious trouble, for the well governing of the community to which they belong, be it a township or parish, a ward or a city, or a nation as a whole.

How far education fitted to prepare for such work can be given in the different kinds of educational institutions will depend on their nature and special objects and the conditions of the scholars. should be something of it, however, through the whole of them. the scholars should have some idea of the great institutions of the country, and the knowledge should be imparted in such a way as would inspire the wish to serve her. This knowledge should include a general conception of the constitution of the nation, the organisation and methods of government, and the functions of the various local and central authorities and the relations which they bear to one another, together with a history of these institutions in Britain, and of the chief relations of this country to foreign countries and to our Special attention should be paid to the constitutions and powers of the local bodies of which the scholars hear or read every day, as, for instance, town and county councils, parochial boards, school boards, and sanitary authorities. The difference between the making and the administration of laws should be clearly explained, as well as the duties and responsibilities of every citizen to both these departments. The sense of civic duty would thus be cultivated, and the exercise of the voting power would be felt to be a solemn trust, on the proper performance of which would depend the future welfare of the country. The great extension of local government which is taking place makes accurate information regarding civic and local duties a national necessity. As Henry George has well said—

More and more intelligence must be devoted to social affairs, and this not the intelligence of the few, but that of the many. We cannot safely leave politics to the politicians, or political economy to college professors. The people themselves must think, because the people alone can act. The intelligence required, more-

over, is not a mere thing of the intellect. It must be animated with religious sentiment and warm with sympathy for human suffering. It must stretch out beyond self interest, whether it be the self interest of the few or of the many. It must seek justice, for at the bottom of every social problem we shall find a social wrong.

The growing importance of social subjects is gradually showing educationists the necessity for a change being made in the methods of teaching history. Hitherto there can be little doubt that of all the ordinary school subjects history has been about the worst taught. A teacher may know a multitude of facts, names, and dates, and yet be quite unable to impart a real knowledge of history to his pupils. In order to do this he must be able to realise the great movements which influenced the lives and conditions of the people, and to distinguish between the past and the present. He must have imagination enough to realise the dead past in the living present. In short, he must not only be acquainted with the facts of history, he must know its methods. While not neglecting ancient history he must attend chiefly to what has a bearing on present day life.

*One who is an authority in the theory and practice of education has pointed out how absurd it is to find children knowing about the Heptarchy and the feudal system, and yet not knowing how our present Parliament is constituted, and what are its duties and functions. He says he not infrequently finds, in examining candidates for the public service, students who really possess a good deal of book knowledge about the constitutions of Clarendon and the Act of Settlement showing lamentable ignorance as to the way in which laws are made at the present moment. He points out that almost all the writers on the Constitutional History of England confine themselves to accounts of the struggle between Crown and people, and into the gradual assertion of the right of representation and of what Carlyle cynically describes as the "liberty to tax oneself."

Although this is a very important part of English History, it is not the whole. Such subjects as the removal of the impediments to printing and to the diffusion of knowledge; the history of slavery and its abolition; the gradual disappearance of religious disabilities; economic and commercial reform; the imposition and working of the Poor Law; the provision for national education in the form of ancient endowments and afterwards by public grants; the reform of our representation; the growth of literature; the extension of our colonies; all these subjects deserve to be looked at separately, and to furnish the material for special lessons in the lecture form. He recommends that, concurrently with the study of history by periods, there should be arranged a series of lessons according to subjects, on this wise—

^{*} Dr. J. G. Fitch.

The Crown and its Prerogatives.

The House of Lords.

The House of Commons.

The History and Progress of an Act of Parliament.

Ministers.

Judges.

Magistrates.

Municipal Corporations.

Juries

Taxes.

A General Election.

Treason.

The Army.

The Navy.

The Civil Service.

Public Trusts.

The Administration of Towns

and Parishes.

Guardians of the Poor.

Such a course, carefully prepared and well illustrated by historical examples, would have the effect of making the scholars sensible of the responsibility which will devolve upon them as members of a free community; a State which asks the voluntary services of her citizens in the administration of justice, in the management of public trusts, and in the conduct of public business. Every scholar should be made to feel that he is expected to render unpaid service to the community in some shape or form. Dr. Fitch points out that this sense of civic duty is the necessary correlative to that consciousness of civic rights which Hallam and the constitutional writers are apt to dwell on so exclusively. He moreover points out the necessity for so teaching as to inspire the scholars with a love and admiration for the country we live in, and for the institutions by which we are While in what usually goes by the name of patriotism there may be much that is selfish and vulgar, still patriotism is one of the things which our teaching ought to cultivate, a rational and affectionate regard for the country in which we were born and for the privileges we enjoy in it, and a noble ambition to live lives which shall be worthy of it.

The historical method of treatment might be extended to a great many subjects which might be taken up by the older scholars. Attention especially should be paid to the history of great political ideas, to the social conditions of the people and to the forces which moulded them, and the relation of these to the development of social ideas and of schemes of social reform, as shown in the history of our

own country and of foreign countries.

The students will not have proceeded far before they discover a very intimate connection between the method of the tenure of land and social problems. They will find that land was originally the property of the nation, and that those who became its nominal owners did so on the condition that they performed very definite national duties. They will further find that when personal services were not required, land bore the greater part of the expense of the army and navy and of the education of the country, in short, that land has never been recognised as absolute private property, but only

as held in trust for the benefit of the whole community. The history of the connection of land and the expense of education, from the time when the monasteries were the only schools down to the passing of the present Education Act, would start many thoughts in the minds of the students, and, while it would be neither desirable nor necessary for the teachers to enter into details of schemes of reform, these thoughts would germinate, and cause the present position of the land question to be thoroughly considered, and steps to be taken to rectify the evils connected with it.

A study of the evolution of industry from the earliest to the present time would be the best preparation for dealing with many of the problems which are now awaiting solution. The record of the various stages of our industrial development would not only show most distinctly the difficulties and dangers to be avoided, but also give a good idea of the possibilities of the future and the conditions which are necessary not only for the successful carrying on of trade and industry, but also for ensuring the welfare of the workers and of the

community generally.

Special attention should be paid to the history of industrial and social institutions such as mediæval guilds, trade unions, boards of arbitration and conciliation, co-operation, friendly societies, and poor laws, and the bearing of these on the social conditions of the poorer classes should be carefully considered. Some of the relations of trade and industry should be studied, and especially the difficulties which arise between employers and workers, and how far some of the above-mentioned institutions might, if properly used, lead to the

solution of industrial struggles.

The excellent scheme of study in the "Life and Duties of the Citizen," which has been inserted in the Education Department Code of Regulations for Evening Continuation Schools, under the direction of Mr. Acland, who has long taken a personal interest in this matter, is a great step in the right direction, and if it be carried out under proper conditions must lead to very important results. fundamental principle is that public duties accompany all forms of work in life, whatever the occupation or profession, and that serving The individual benefits from personal interest alone is not enough. a well-ordered community, and the community ought to benefit in its turn from the efforts of the individual; "all for each" should be requited by "each for all." It further points out that we have no right to expect just legislation or impartial administration unless we perform with intelligence those public duties which devolve upon all and that if we suffer injustice in connection with public affairs, we have little right to complain unless we have done our own duty. this course of instruction were faithfully carried out in every school in the country, we would soon have an ideal of individual and civic duty

in the community which would have a powerful effect on our social and economic conditions, and solve many of the problems with which we are now confronted.

The difficulty, however, of carrying out a complete course of study in social and political subjects in ordinary educational institutions is at once recognised when we consider how much opinions differ on such subjects, varying as they do from those of the extreme individualists to the state socialists, and any attempt to draw out a complete authorised curriculum would show even greater diversity of opinion than exists regarding religious education. All that should be attempted, therefore, should be such general truths and facts as are not disputed, and which every intelligent citizen ought to know. If in some cases the teaching had a bias in certain directions, the danger arising therefrom would be much less than the danger of neglecting to give any instruction at all. Instruction regarding civic and industrial organisations, combined with the study of history in the manner I have indicated, would prepare the way for the independent study of the subjects by private reading and the help of the various voluntary associations which exist in all parts of the country. The fundamental condition of real progress is perfect freedom of thought and action, and that is seldom possible in any organisation of an official or semi-official nature.

FUTURE OF TRADE UNIONS.

The most important of these voluntary associations are the trade unions (using that term in its general sense and thus including all professional and trade organisations), and it seems as if the time had now come when these ought to be considerably developed and become real modern trade guilds, which would take an interest in all that affects the welfare of the workers. The training and education of apprentices, for instance, should receive special attention, for by these means not only would the unionists keep out of their ranks all who were not worthy of the position, but they would also show that their objects were not simply "more work" but "better work," and the improvement of the intellectual, moral, and economic conditions of the workers, and ultimately the welfare of the whole community.

The trade unions, either directly or by means of literary and scientific associations which might be affiliated to them, should afford their members opportunities for the study and discussion of the wider questions which affect their interests. Especially should this be the case when the trade-unionists are also co-operators, for the fundamental principle on which co-operation should be based should not be the making of profit or dividend, but the improvement of the workers and the good of the community. In short, the trade

unions should, like the mediæval guilds, become not simply organisations for maintaining the economic rights of the members, but living groups of men and women, animated by common principles of religious and industrial faith, and united for the satisfaction of the permanent needs of human life.

USE OF LEISURE.

The real education of the citizen must, it is evident, therefore be to a large extent apart from schools, colleges, and universities, and take place during his ordinary daily work and what are usually considered spare hours. This leads us to consider the proper use of leisure.

An ancient Greek philosopher has said that the chief end of education should be to enable a man to make a rational use of his leisure time, while a modern philosopher has expressed the opinion that "the future social type will neither use the products of industry for maintaining a militant organisation nor exclusively for material aggrandisement, but will devote them to the carrying on of higher activities, a type which, instead of believing that "life is for work," will hold the inverse belief that "work is for life." should be clearly kept in view in all schemes of education. have pointed out, even in those of a special nature, the more general aspects of human society and requirements should never be overlooked. Every man and woman should have some interest in subjects apart from those by which they earn their living, and above all in some healthy form of recreation, for we may rest assured that the means of rational enjoyment are necessities not only for individual, but also for national existence. Reading, drawing, painting, or other work of an artistic or scientific nature, should occupy a certain proportion of our leisure time, for too much excitement is demoralising both to soul and body. Physical exercise should be duly attended to, so that health may be maintained and the best intellectual efforts made possible. The necessity for moderation, however, should be impressed on all young people, for modern athletics too often degenerate into mere "sport" to afford a convenient means of betting, or into efforts to break the record in some form of exertion. Such performances do more harm than good, and very often permanently injure the health of those who indulge in them. Gymnastic exercises in well-ventilated rooms or in the open air, and games of all kinds played for the sake of the exercise they give, are very useful for developing the bodies of the young. more advanced years, however, will, on the whole, find walking the most generally useful and instructive means of exercising and developing every part of the body, and at the same time affording opportunities for training the mind by observation. Not only in

this way might the natural sciences of botany, geology, and zoology be cultivated, but also the equally interesting studies of archæology, history, and geography might be carried on to the advantage of the persons most directly concerned and to the community, for the results of the observations might often be imparted to the public by means of papers or books which would interest and instruct many in the neighbourhood, and in some cases the nation or even the whole civilised world. The wider aspect of such work would naturally lead the students to the consideration of social, economic, and political subjects. They would inquire into the manner of the lives which were led in the homes both of our large cities and country districts, and they would be compelled to consider whether these were what they might be. Their reading and observation would gradually take a more definite course, and the great problems connected with education and health, the conditions of labour, poverty, crime, and so forth, would all be seen in their extent and intensity, and would cause them to make a determined effort to improve matters. It is in this manner that all real social progress and reforms have their origin in education, for when once men's minds are prepared for any change, no power on earth either in the shape of government or general environment will prevent it taking place. Even politics depends for its ultimate victory upon educational methods and not upon clever tactics, a fact which is too often forgotten at the present day. It seems to be thought necessary that when a man attains any degree of fame or notoriety in the political world, he should henceforth form a party, and then the interests of the community are forgotten in the struggle of party politics and personal animosities. A well-known scientific man* has remarked:—

That if the evils which are inseparable from the good of political liberty are to be checked, if the perpetual oscillation of nations between anarchy and despotism is to be replaced by the steady march of self-restraining freedom, it will be because men will gradually bring themselves to deal with political as they now deal with scientific questions; to be as ashamed of undue haste and partisan prejudice in the one case as in the other; and to believe that the machinery of society is at least as delicate as that of a spinning jenny, and as little likely to be improved by the meddling of those who have not taken the trouble to master the principles of its action.

A few of the most important problems of the future may be noted in order that the nature of the training required may be more clearly understood and carried out with a definite purpose, for much time and energy are wasted unless each one marks out for himself, in addition to more general objects, a more or less restricted sphere of action.

^{*} Professor Huxley. "Science and Culture," p. 23.

ECONOMICS.

Of all the problems with which machinery and modern industry have brought us face to face, and the solution of which will require our most earnest efforts, probably the most urgent is the construction of a new system of economics suited to the requirements of the times, for without some guiding principles clearly understood we will be apt to drift aimlessly, or, at least, our efforts are not likely to lead to useful results. The economics of the future will differ from that of the past in regarding the true life of man, and not the mere production of wealth as the ideal to be kept in view, and the whole must be consciously dominated by a social purpose; that purpose being the raising of all men to similar chances of true life in labour. In all production the chief factor is the human factor, and whatever affects this will affect wealth production, and every effort must be subjected to the question: What effect will it have on the entire life of the nation and on humanity? The new economics will have for its starting point the ethical community of which the individual is a member, and the gulf which at present exists between morality and economics will be filled up, and wealth will be compelled to take its place as a means to an end, and not be magnified into the chief end of life.

* The practical end of our study will be to show how most wealth may be produced at the least expense of human life and well being; not at the least expense of labour, but by forms of labour wherein a man shall find a worthy and congenial life; and how distribution of wealth can be effected, not by competition or scramble, but by the generous emulation of moral men with a definite social ideal of life before them.

Such an ideal would enable John Ruskin's conception of political economy to be realised, namely: "A system of conduct and legislature, founded on the sciences, directing the acts and impossible, except under certain conditions of moral culture."

EDUCATION.

A PROPER system of economics having been constructed, it is absolutely essential for the solution of our social problems that we should have a system of education in which the ideals which pervade the economics should be kept in view from the earliest years of the pupils. Such a system would include all the parts we have mentioned, but in a more thorough and complete manner than at present, and would afford the training which is necessary to produce a healthy rational being, what is required to enable him to perform his duties to himself and those immediately dependent on him, and

[•] William Smart. "The Old Economy and the New;" Fortnightly Review, August, 1891, p. 292.

what is expected of him as a citizen who recognises that the welfare of the community is intimately bound up with his own, and is, in

fact, indispensable to it.

The education of women is now receiving considerable attention, and arrangements are made for them obtaining the same opportunities as men for training, not only in branches of pure learning, but also in the applications to many professions and industries, and the full economic bearing of the subject is now being recognised, as it is seen to be the true means of arriving at a solution of many of our social problems.

RECREATION.

CLOSELY connected with an adequate system of education is that of a rational system of recreation. This is one of the greatest needs of the present day, for it must be remembered that man is a social being, and, further, that success in every department of life depends to a large extent on his bodily health. While everything should be done to brighten the homes of the people, we have now arrived at such a stage of social development that the community should provide its members with the means not only for intellectual improvement, but also for social enjoyment and healthy recreation in the way of reading rooms, music halls, and public parks, art galleries and museums, and public institutions of all kinds. A great advance has been made in these matters during recent years, but we are still far behind the leading continental countries. While a great deal may be done by voluntary associations for the improvement of the enjoyments of the community, still I am of opinion that much of the work should be municipal in its character, at least in those departments which can be taken advantage of by the people Voluntary effort will always find sufficient outlet in those matters which are of an individual and personal character. More complete arrangements for rational recreation and enjoyment would go a long way towards solving the drink problem, for it must be distinctly recognised that public houses as at present constituted, or very much worse, will never be got rid of until something better be put in their places. It must always be remembered that not only is drink the cause of poverty, but also that poverty is the cause of drink, many being driven to it in their efforts to drown their troubles. Temperance reformers often look too much to one side of the subject and fail to see the necessity not only of competing directly with drink, but also of improving general social conditions. admitting the evils connected with intemperance they ought to remember more distinctly than they do that very often drinking habits arise from the misery, overwork, pain, and monotony of life, and that when these evils are removed the temptation to drink to excess passes away.

A thorough system of recreation, combined with an adequate education in the relations of personal and public health, would have a great effect on moral and social conditions, and be a powerful factor in elevating the great masses of the people, for only by these means can it be brought home to a nation that the acquisition of health means the acquisition of wealth. Sir Andrew Clark recently expressed the opinion that doctors lived by the sins, ignorances, and follies of mankind. If that be so, we should not attempt to convert the world into a huge dispensary for drugs to cure moral and physical ills, but rather remove the causes of these ills by improved education and social and economic conditions.

SOCIAL MORALITY.

A More unselfish system of economics would cause many of the current notions of morality and conduct to be revised. For instance, the virtue of thrift is one which is emphasised by almost all classes of teachers and preachers as one of the means of improving the condition of the masses, and no doubt, as society is at present constituted, a certain amount of thrift is not only advisable but necessary.

The well-to-do should be frugal and economical in order that they may be better able to help those who require assistance, and that should be given in such a way as to enable them to help themselves. Those who have nothing but their own industry to depend upon should save something for a rainy day, and endeavour to make some provision for sickness and old age. Children should be taught the value of thrift and encouraged to provide special things, either for their own advantage or the benefit of others. The habit would thus grow upon them, and when they became men and women they would not only take care to live within their incomes, but also to make some provision for the future. At the same time, it must be evident that thrift can never be a remedy of universal application. which is derived from past savings must come from present labour, and if all worked, such income would merely be a transference of a certain amount of money from one pocket to another. Moreover, the money which is said to be saved is generally employed by capitalists to increase production, so that the saving workman is helping to increase the difficulties which are constantly arising from periods of over-production and corresponding depression. The only real way to enable all to be well off is for all to perform some useful work so long as they are physically able. The effect of saving on the workman himself is very often not all that could be desired. Someone has truly said:—
England is the land of sad monuments. The saddest monument of all is,

England is the land of sad monuments. The saddest monument of all is, perhaps, the respectable working man, who has been erected in honour of thrift. His brains, which might have shown the world how to save men, have been spent in saving pennies; his life, which might have been happy and full, has been

dulled and saddened by taking thought for the morrow.

Instead of so much prominence being given to the orthodox lessons on thrift, it might, on the whole, be more useful if people were taught the duty of laying out their savings sensibly, and with thought for others. The subject of old-age pensions is one which is now being very much discussed, and which requires to be carefully studied in all its bearings. It ought specially to be remembered that while it is highly desirable that every person should either directly or indirectly make a provision for old age, or for those he may leave behind him, it may safely be said that with many wage earners that provision could only be paid for by such a sacrifice of present necessities as would greatly increase the risks to be provided With such, the best thrift is to give themselves such food, lodging, and clothing as will keep them in the best working health, and to afford their children such advantages of food, clothing, and education as will give them a fair chance of growing up strong and well qualified to take their part in the work of the world. Probably the education of wants is of more importance to the community than the constant inculcation of habits of thrift. An utter absence of rational wants is one of the greatest hindrances to social advancement, while a misdirection of them may be very demoralising.

It is now being recognised that the old Grecian ideal is the correct one in this respect, namely, that personal wants should be few and simple, and that temperance in all things should be the rule of individual life. On the other hand, the aim of all good citizens should be to make the corporate life full and complete, with every facility for healthy life, pleasant recreation, and instructive study and research. The ambition of many people at the present time is to save sufficient wealth to live upon their means, as the ordinary An improved system of economics and of expression has it. education would rapidly cause this delusion to disappear, for it would be seen that a great deal of what is generally considered accumulated wealth is nothing more than a burden on present labour. Even as it is, it is being recognised that wealth has few, if any, rights apart from duties, and in the future all who fail to take a fair share of duties will be looked upon as mental and moral weaklings and treated accordingly. How accumulated wealth is administered is an important public question, which will certainly be put in earnest in the future.

Not only in the ideas regarding such commonplace virtues as thrift and temperance, but also in the more general principles of morality, there is likely to be a change in the methods of education, and the applications to practice. Too often, at present, we find men who turn up their eyes in pious horror at a breach of the seventh commandment, which they seem to consider the full embodiment of morality, but who forget all the other parts of the

Decalogue and the whole of the New Dispensation. They not only covet their neighbours' houses, but all that they possess, and they use every means in their power to obtain their wishes. by the slow process of starvation and overwork, or by breaking the hearts and ruining the business of their smaller competitors; they lie, not of course in the vulgar way, but by their whole lives, and they set up as their gods, mammon, honours, and position; in short, they may be destitute of all the Christian virtues if they only keep up an appearance of piety, and liberally patronise the subscription lists of the churches and of institutions which are commonly called philanthropic. The most difficult feature in the matter is, that many of them do not recognise the wrong they are doing, for they have adopted a false standard of conduct and provided themselves with ample justification for all their misdeeds. Their morality has become entirely perverted by long association with the ways of mammon. Not infrequently they have a very sensitive vicarious conscience. They do not exercise a very close watch over their own moral duties, or those of corporations by which they directly profit, but they have a keen perception of the motes in their neighbours' eyes, and a feeling of intense responsibility for the conversion of the heathen.

The greatest change will, however, take place not in the personal but in the social or public virtues, for all will be trained to high ideals of public duty. It must be remembered that the first condition of any social reform is that its pioneers should be capable of some sacrifice, and it will be found that the success and extent of the

reform is exactly proportioned to that capacity.

The spending and the investing of money and generally the use of wealth are what are most likely to appeal directly to individuals. When people buy cheap goods they very often forget that they buy the lives of men and women, and share in the guilt which causes their degradation or their death. When they invest their money, while they will not do the harm they see they will not see the harm they do. The multitude of public companies has removed almost all feeling of direct responsibility. It has been well said—

That a company is just a long chain, which pulls at something out of sight of the puller. You stand at one end with your capital and apply the force; at the other end it is fastened round some wretched slave of toil, and that little tug you give the chain when you purchase some new article of luxury has wrung from him—nay, her—another drop of sweat—it may be blood.

What is true of companies is true of many other forms of investment, such as house rents and foreign bonds. How many owners of property take any interest in the welfare of their tenants so long as they get their rents? How many bondholders who invest in Turkish, Egyptian, or other bonds consider for a moment that

in doing so they become slaveholders, for whom the last coin, possibly the last handful of grain, is wrung from a wretched peasantry to pay their dividends? How many men who have the reputation of being honourable would hesitate to get rid of their shares in a rotten company, or their bonds of a bankrupt government on receiving early information of a collapse? It is good trainess to place such shares or bonds on the market, very likely to be bought by some widow woman, struggling to increase her income for the support of her family and herself, and who next day finds herself a beggar. In the meantime our business man goes to church regularly, and takes part in many philanthropic and charitable undertakings, and is considered a pillar of society. It almost seems as if morality demanded that a man should determine not to become rich than, having enriched himself, he should in the usual conventional manner charitably dispose of some of his wealth.

The ancient Greeks considered that to be well or nobly born was one of the best gifts of the gods. Campanella, in his "City of the

Sun," written nearly four hundred years ago, said that—

The people in his ideal city laughed at us who exhibit a studious care for our breed of horses and dogs, but neglect the breeding of human beings.

Herbert Spencer has made a similar remark—

Consider (says he) the fact from any but the conventional point of view, and it will seem strange that while the raising of first-rate bullocks is an occupation on which men of education willingly bestow much time, inquiry, and thought, the bringing up of fine human beings is an occupation tacitly voted unworthy of their attention.

Men and women at present throw, on what they call the mysterious dispensations of Providence, the responsibility for their own ignorance, sensuality, or carelessness. If they were perfectly honest to themselves they could explain those so-called dispensations, and it is certain the society of the future will not accept such lame excuses for neglect in the performance of the highest duties of the race. No plea whatever can be received as an adequate excuse for ignorance of some of the chief duties and responsibilities of citizenship. the aspects of what is usually called the "population question" in their physiological, economic, and social bearings should be carefully studied, for conditions are being evolved which will compel our teachers and legislators to recognise that the population question cannot be blinked for ever, or left to the blind workings of animal If the question were approached in a reverent spirit, as becomes its importance, it would be found that increase of knowledge and self-control in this as in other social problems are the root factors of the solution. If the foundations for sound physiological knowledge were laid in our schools, and these were followed up by

economic and social studies, there would soon be evolved such a strong public opinion on the subject that many of our most difficult

social problems would gradually disappear.

The change which will take place in the ideas of public duty and in the manner of imparting them to the rising generation may be best illustrated by the opinions which will be held with regard to education itself. At the present time a good many people who have educated their own children, or who have no children of their own to educate, say that it is a hardship for them to pay for the education of other people's. They do not complain much of poor or police rates, they do not object to prisons and lunatic asylums being erected at their expense, and they contribute willingly to all sorts of charities, which they seem to look upon as necessaries to civilisation. They fail to see that education is the only safe charity, and that if it were of the proper kind it would make all the other forms unnecessary. It is long since Sir Thomas More wrote—

If you suffer your people to be ill-educated, and their manners to be corrupted from their infancy, and then punish them for their crimes to which their first education disposed them, what else is to be concluded from this, but that you first make thieves and then punish them.

Ruskin was considered a dreamer, an impracticable man, when almost forty years ago he wrote that—

In order that men may be able to support themselves when they are grown, their strength must be properly developed while they are young; and the State should always see to this—not allowing their health to be broken by too early labour, nor their powers to be wasted for want of knowledge.

He also suggested that there-

Ought to be Government establishments for every trade, in which all youths who desired it should be received as apprentices on their leaving school; and men thrown out of work received at all times.

We have not yet got so far as Ruskin indicated as desirable in the matter of education and training, but we are moving rapidly in that direction, and it seems as if the forces at work will ultimately cause all his ideals to be realised.

Free education is, in short, only a partial recognition of the fact that the world is a social organism in which it is the duty of all to share in the responsibility of providing for the proper training of every member of the community. The ideal should, therefore, be to transform all our miscellaneous kinds of charitable taxes and contributions into a school rate which will include them all, and be sufficient to provide thoroughly equipped educational institutions of every kind. When higher social ideals prevail the nation will demand that these institutions shall have the first claim on the national resources. Then, also, men and women, instead of striving after riches for themselves, which they can neither enjoy in this world nor take with them to the next, will devote their efforts

towards making their town or county rich in institutions which can be made use of by the whole community, or in adding to their country's greatness by their works in literature or art, their discoveries in science, or their successful efforts in wise legislation and administration.

The education and social life of the future must, therefore, be largely permeated by the moral and religious element, but it must be imparted not so much in the shape of theological dogmas as in high ideals of life and duty. It should be impossible to draw a line between the religious and the secular part of our lives. Religion

should be life, and life should be religion.

In the church of the future the greatest heresy will be uselessness and neglect of social duties, and the greatest sin the sin of selfishness. At present, petty, narrow, sectarian jealousies prevent the different sections of the church calling itself Christian from uniting to form a church which would be wide enough to include all good Christians, and powerful enough to regenerate the world. The formation of such a church is one of the root problems of the future, for if it were solved many of the others would solve themselves. Its chief function will be to combat vice and selfishness, to help the helpless, and to implant in man, as conviction and habit, an ever-present sense of accountability to God and disinterested duty towards man. A thoughtful writer, however, has reminded us that—

The service of man will not be made lighter or simpler in a democratic age. The complexity of social problems is so great, they need regarding from so many points of view, their right solution is so important, their wrong solution so perilous, that they can no longer be left to any official or limited class of inquirers. They concern all citizens, and few duties in our day are so imperative as their earnest, persistent study. They do not, happily, need much book lore. Clear heads and resolute hearts, aided by eyes open to the facts around them, will for this purpose more avail than academic culture. The modern man in search of well-being has two ends to bear in mind. First, his own self-cultivation, especially of his heart, as incomparably most important both to his own happiness and that of others. Secondly, it behoves him to help his fellows to the extent of his power by such improvements in the practice and theory of life as he can make good by sound reasons. In this direction I admit that he may encounter not prosperity but persecution or even worse, but if he is a true man he will not mind that.

The true test of morality is evidently to be found in the answer to the question—are its results social or anti-social? A man's conduct is not to be measured by his knowledge of the abstract doctrines of metaphysics and philosophy, or his belief in the dogmas of religion. As Henry George has said—

He who observes the law and the proprieties, and cares for his family, yet takes an interest in the general weal, and gives no thought to those who are trodden under foot save now and then to bestow alms, is not a true Christian, nor is he even a good citizen.

^{*} J. C. Morrison. "The Service of Man." Preface, p. xxix.

PHILANTHROPY.

The practice of what is usually called philanthropy is considered the legitimate outcome of religion. The very first idea, however, which we ought to get rid of, is that philanthropy as commonly understood will cure the evils of society. If we had justice between man and man, there would be little or no need for philanthropy. Ruskin has reminded us that—

This healing is only possible by means of justice—no love, no faith, no hope will do it; men will be unwisely fond, vainly faithful, unless primarily they are just, and the mistake of the best men through generation after generation has been that great one of thinking to help the poor by almsgiving, and by preaching of patience and hope, and by every other means, emollient or consolatory, except the one thing which God orders for them—justice.

Ordinary philanthropy is content with trying to put right what social and economic conditions put wrong. Real philanthropy not only does this where it is absolutely necessary in the spirit of true charity, but it also endeavours to put the social conditions themselves right. The most depressing feature in society at the present time is the fact that many who bear the character of being both philanthropic and religious, who subscribe largely to all kinds of church purposes and charitable institutions, are in their daily business submerging more than their money will ever raise. In many cases subscriptions are simply apologies for neglected duties and hush money to uneasy consciences.

While many of our philanthropic agencies have been maudlin in spirit, imbecile in methods, and consequently mischievous in results, they have at present their useful, even their sacred side. We ought, however, to remember that the object should be to get rid of them as soon as possible, and not allow them to be magnified as ends in themselves. There has already been a beginning of co-ordination of agencies which must ultimately put an end to all special societies, and their duties, if any be left, will be transferred to that society of

societies which is society itself.

DEMANDS OF LABOUR.

The problems connected with labour and the organisation of industry are the problems which should receive the most careful study from all classes, for on their solution depend many of the

other problems which demand attention.

The workers are beginning to recognise their power, and to expect that they should receive a larger share of the proceeds of their labour, and that an improvement should be made in their social conditions. It cannot be doubted that the amount and reasonableness of their demands will depend to a very considerable extent on the efficiency of their education as citizens. They cannot be accused

of extravagance if they ask that their labour should receive sufficient reward to enable them with prudence and economy to comfortably maintain themselves and their families, and that without requiring their wives to take any part in factory or other similar work, and to make provision, either directly or indirectly, for their decent support after their labouring powers have failed, that they should have healthy and convenient houses and workshops, that they should be protected, as far as possible, from injury when following their occupations, and that their hours of labour should not be so long as to injure their health and prevent them from enjoying a reasonable amount of leisure, and that proper facilities be given for the useful enjoyment of that leisure, either in their own homes or through the public institutions of various kinds which have been already mentioned.

Although these are reasonable demands they open up many questions on which much difference of opinion exists, and therefore they should be carefully studied and discussed from all points of view, so that their bearings may be fully understood and public opinion educated in such a way as to lead to solutions which will advance the welfare of the whole community. Another demand which is being made with increasing intensity, by those who cannot find employment in the usual manner, is the right to labour in order to obtain at least the necessities of life without subjecting the

labourers to the taint of pauperism.

This also seems reasonable, but great care must be taken in making arrangements to meet it, for those which at first sight may seem the simplest and most direct may in the end only make conditions worse. Hence the necessity for a careful study of all the economic bearings of the problem. No possible objections, however, can be taken to arrangements which permit those who cannot otherwise obtain work to raise the food needed for their own maintenance. While admitting that improved legislation and administration may do a good deal for the improvement of the conditions of the workers, it must be always distinctly recognised that the emancipation of labour is not so much an affair of legislation or agitation as of morals. There is no power on earth that can emancipate men who are slaves to degrading passions or habits, or who are awanting in dignified Contrariwise, there is no power on earth can hold down working men, whose habits are wholesome, who put their hearts and their brains into their work as well as their arms, and who meet equals and superiors alike with courteous self-reliance.

After all, true education will be found the most effective means of attaining the ideal of equality, if not of conditions, at least of opportunities, for which so many are now striving. A well-known

French writer * has said—

^{*} Leroy-Beaulieu. Revue des Deux Mondes, December, 1889.

The social problem is before all things a religious and moral problem. It is not only a question of stomachs, it is quite as much a question of the soul. Social reform can only be accomplished by means of moral reform. In order to raise the life of the people we must raise the soul of the people. In order to reform society we must reform man, reform the rich, reform the poor, reform the workman, and reform the master, and give back to both of them what is at present lacking, equally to each of them, a Christian spirit.

Even without much legislative or administrative change, a great many of the evils from which society at present suffers would disappear if there were a more earnest cultivation of the individual sense of honourable obligation. The education of public opinion in the right direction on all social matters is therefore a very pressing duty on all who have any influence, not only because of its direct effects, but also because public opinion in a country like ours is legislation in its nebular state.

TENDENCIES OF THE AGE.

One of the most useful and interesting departments of study is the comparison of the different movements which are going on at the same time, in order to ascertain how far they are all tending in the same direction, or, in the language of dynamical science, to find their effective component. It is evident that many of the tendencies of the age are not due to any extent to voluntary action, but to a dominant overmastering evolution produced by forces inherent in our system of civilisation, and however much the results may be modified in details by private enterprise and legislation, they are to a very large extent beyond the control of individuals and governments, although these may direct them in such a manner as to benefit the whole community and not simply a comparatively small section of it. It is, therefore, necessary that social reformers and legislators should carefully study the tendencies of the age, and endeavour to guide them to the highest possible good. They should be sure that their efforts are always in the right direction, for this is of more importance than the extent of the steps they take. The forces in action must inevitably bring about the necessary change of conditions by the slow and sure method of evolution as soon as men's minds and morals have been prepared for them.

As already indicated, a study of the evolution of industry would open up many subjects for discussion and consideration. Society would be seen to be in a state of unstable equilibrium. On the one side would be found the instruments and the means of production in the hands of a comparatively small number of capitalists, and on the other the great body of the people dependent on these capitalists for the means of subsistence, and the question would naturally be asked,

what is to be the next stage in the evolution?

The answer to that question might be influenced by a study of the use of machinery, and the results which it has had on the social and economic conditions of the capitalists and the workers, and probably if the students were of a very logical turn of mind they might be driven to the conclusion that the only way of solving the problems of labour was by the community taking possession of all machinery and other instruments of production, for they would feel that so long as the competitive system prevails little attention will be paid to the welfare of the workers when the introduction of new machinery is proposed. If, however, their logic were tempered by a study of history and science, they would also see that changes of conditions to be permanent must be slow, and take place only as men's minds and morals were prepared for them. They would see that an extension of the present system would inevitably lead to large monopolies, which will hold society at their mercy for the necessaries of life, and that the only alternative is some form of co-operative organisation which, while attending to the welfare of the workers directly concerned, will at the same time be controlled in the interests of the whole community.

They would recognise that the preparation was taking place by the increased attention which is being paid to education, and to the Education is beginning to widen in its changed ideals of religion. objects, and it is now seen that it should not be used simply as a means for individuals "getting on," but for raising the whole standard of national life. If education of the right kind were given and properly applied, it would lead to a solution of all our social problems, and in order that it may be so it must be permeated by religious ideals. Nothing is more striking at the present day than what may be called the socialisation of religion. It is now being recognised even by theologians that religion should not be so much a creed as an experience or life, not a restraint but an inspiration, not an insurance for the next world but a programme for this world, and that the chief item in that programme should not be looking after our own safety or welfare, but saving ourselves by helping to

save others and bearing some of their burdens.

The socialisation or nationalisation of education and of religion is gradually leading to the socialisation of public health. resources of the community are being employed in the prevention of disease, which is recognised as a more rational use than the maintenance of hospitals and other institutions for the reception of those whose health has been injured or ruined by unwholesome conditions of work or existence. A great deal of what has hitherto been called philanthropy is thus being rendered unnecessary, for philanthropy, as we have seen, like everything else, follows a well-

defined law of evolution.

As the result of the various social forces at work, there has been slowly going on alongside the industrial revolution another revolution, which indeed was necessary to counteract some of the evils which arose in consequence of the industrial changes. The relations of rights and duties are being more distinctly recognised, and a revolution is taking place in men's ideas regarding social economy; the duties of property are being insisted upon, and the rights of

labour are being demanded.

Legislation, which is simply public opinion in a crystallised form, has been profoundly affected, and the change in ideas has been reflected in the laws which have been enacted during recent years. These have done much to limit the power of money and to improve the position of the workers, and we have a long series of enactments which have been most effective in preventing disastrous social Among these need only be mentioned the various consequences. Acts of Parliament which repealed the disabilities of the workers and enabled them to form trade unions for their own protection and to influence legislation in their own behalf, the Factory Acts, and the numerous measures relating to sanitation and many other points affecting the welfare of the people. In fact, the struggle which for centuries has been going on between employers and employed has in great part been transferred to the floor of the House of Commons, and it has now reached what may be called its critical point. effect of recent legislation has been to increase the power of the State over almost every department of life. The army and navy, the police and courts of justice have long been recognised as proper functions of the State, although they were at one time left to private enterprise. Public education, the post-office and telegraphs, and all their associated agencies are the most important recent efforts of the central government for the general improvement and convenience of the people.

Social reformers, however, are no believers in the centralisation of power, which too often means dull, lifeless, official routine, but, on the contrary, are of opinion that it is only possible to carry out their ideas when the power is localised, and when those who exercise it can observe all the conditions of the problems which they are called upon to solve, and hence the great development of what is usually called "Municipal Socialism." Gas and water works, public libraries, museums, art galleries, and parks now form part of the regular organisation of every large town, and in many cases steps have been taken in various directions which promise immense developments. In short, both politicians and economists are beginning to recognise, although in a somewhat blind, unconscious manner, that industrial society will not permanently remain without a systematic organisation, and that the mere conflict of private

interests will never produce a well-ordered commonwealth of labour. As Mr. Frederick Harrison *remarked—

That most of what is called socialism is a perfectly healthy reaction against the pragmatical prejudices that profess to be political economy. The old plutonomy we may trust is dead and buried. Socialism is in the air, and is modifying the whole current of our politics and our legislation. So far as it has yet gone, it means in the main the moralisation of our social and political system, and we may wish it a long and victorious career. That it throws up a mass of crude and suicidal "nostrums" is true enough, but these must be met by the practical sense of our political leaders and a more serious education of the people.

The tendency towards the socialisation of industries and institutions is increasing the demand for local government, so that effective and intelligent control may be exercised over the different undertakings, for with social reformers the machinery of local government is merely a means to an end, namely, the welfare of the people. In its wider aspects local government takes the form of home rule, which is merely the co-ordination of the local government of a district or country, as the case may be, all, however, subject to a certain amount of control from a central power. The truth of Carlyle's words is being recognised, namely, that "Government and co-operation are in all things the laws of life; anarchy and competition the laws of death." The development of local government and of home rule must inevitably bring about an end to the desire for empire and territorial expansion, and with it must necessarily disappear the bloated armaments which are the disgrace of our civilisation. The energy which is at present wasted on these will be employed in making the earth more healthy and our cities and towns more beautiful, in short, in transforming this rather dreary and care-worn world into a happy home for the children of men.

The various social movements which we have been considering form connecting links between individualism and socialism. This is especially the case with trade-unionism and co-operation. It must be admitted that the first of these has been entirely individualistic and selfish, but now a broader spirit is beginning to be developed, and trade-unionists see that, even from a personal point of view, they must look not only at the interests of their fellow-members, but also at those of other trades and of the community generally.

On the other hand, it must also be admitted that many who call themselves co-operators have forgotten the ideal of co-operation, and been utterly awanting in the true co-operative spirit, and that many of the works which are called co-operative are simply joint-stock companies in which the dividends are the chief concerns of the shareholders. A higher ideal, however, is gradually being evolved,

^{*} Fortnightly Review, July, 1893, p. 38.

and it is being recognised that the first essential in co-operation is not profit or dividend, but the improvement of the conditions of the workers.

Both trade-unionists and co-operators should recognise that after all the most important aspect of the movement with which they are connected is neither the increase of wages, the shorter hours, nor the dividends. Far more important in each case is its educational value. Wages rise and fall, hours increase or diminish, and dividends fluctuate or disappear, but the educational effect on the characters of the members remains, and no one can be a good trade-unionist or a good co-operator without at the same time possessing many of the

qualities which go to make a great citizen.

It must further be stated that many trade-unionists and socialists denounce both co-operation and profit sharing, and fail to see that the chief hindrances to their own proposals lie in the mental and moral unfitness of all classes of the community for anything approaching a socialistic régime, and they discourage the only practical systems which are fitted to produce the needed capacity and to assist in the evolution of a state of society in which the highest ideals of all social reformers would be fully realised, and in which it will be found that trade-unionism and co-operation are both necessary. As Mrs. Sydney Webb has put it, the proper relationship of tradeunionism and co-operation is that of an ideal marriage, in which each partner respects the individuality and assists the work of the other. whilst both cordially join forces to secure the common end, the co-operative state, in which the inequalities of wealth distribution would be redeemed by co-operation, either voluntary, municipal, or national.

The evolution in that direction would be very much hastened if men's minds were prepared for it by such an education as I have indicated, and if the churches assumed their proper attitude with regard to social problems, and pointed out with greater clearness than they do at present that destitution and crime can only be made to disappear by the spread of knowledge, and that the true millennium—the kingdom of God upon earth—can only come when truth has been discovered in all that relates to human welfare and has been called into practical effect. Moreover, knowledge must be supplemented by the feeling that the progress of civilisation and the welfare of the race depend for their development on the extension of the sense of duty which each man owes to society at large.

POPULAR REPRESENTATIVES.

Such subjects as we have been considering should take a very important place in the education of those who aim at being either local administrators or imperial legislators, and yet how seldom are

the qualifications of candidates for these positions seriously inquired The thoroughly respectable citizen whose ideas have never got beyond looking after the interests of himself or his class, the rich young man anxious for social position, the rising lawyer, the successful manufacturer or merchant who are willing to pledge themselves to any programme which is likely to secure for them the support of a large number of voters, are the most popular candidates with the average constituency, and our legislation proceeds in a

haphazard manner.

The position of member of Parliament, although it is the most important in the country, is almost the only one which is filled by men who have not been trained in some degree for the duties they have to perform, and whose qualifications are not tested before they are allowed to undertake them. Even for local bodies much more attention should be paid to the qualifications of the members. It is quite evident that there can never be any real reform in any department of public business unless through the uprising of civic spirit throughout the country, and the consequent demand by the public that their representatives shall apply themselves to the business which they are sent to perform, namely, the carrying on of the administration and the development of the good government of the country.

The problems before us will require for their solution the best efforts of our noblest men, and if that solution is to be complete it must not simply be empirical, but scientific in the widest sense of that term. It must take into account not only the economic but also the religious, ethical, and political elements of the questions. The statesmen and administrators of the future must, therefore, be acquainted with the various factors of the problems with which they have to deal, and be able to look at them in all their bearings and not simply from their own special points of view, as is too often the case at present. They must not be content with constructing ladders whereby a few may escape from the social degradation of the masses, but they must deliberately consider, with all the aid of science and economic investigation, how the resources of the community can best be used to raise the standard of life throughout

the nation.

In the matter of education especially, and therefore practically in all that refers to the welfare of the nation, it is of the greatest importance that those elected to the position of school board members should be thoroughly qualified to consider all the aspects of the problems with which they are expected to deal. They should not confine themselves to the mere administration of certain Acts of Parliament or orders of the Education Department, and the purely financial aspects of the work, but they should also use their influence

to make the education what it ought to be, and thus cause it to have effect on the thought, the work, and the life of the people. They should have studied the history of education and the different problems which have from time to time been discussed, for nothing is more discouraging to those who are anxious to do their duty in the management of education than to find that questions which were supposed to be settled generations ago all require to be gone

over again.

The work of education is the most important in the country, and the selection of those who take charge of it should not be left to sectarian or political parties. A seat at the school board should be one of the highest honours in the gift of the citizens, and should therefore be neither sought nor bought. The citizens should find out the persons best fitted for the position, and ask them as a matter of public duty to fill it to the best of their ability. If this were done, I am certain that there is sufficient public spirit in the country to ensure that men and women would be found both able and willing to undertake the work. The business of a school board is to make the education of their district as efficient as possible, due regard being had to economy, and I believe that if they showed that good work was being done the ratepayers would not grudge the money. If the work were carried out thoroughly the problems of government would become easy, and our social difficulties would gradually disappear.

SPHERE OF GOVERNMENT.

For a considerable time, however, the subject on which the greatest differences of opinion are likely to be found among representatives of all kinds is the part which government, either local or central, should take in the affairs of the country, and especially in matters connected with trade and industry, for it raises all the questions

relating to individualism and socialism.

A glance at the history of the past quarter of a century shows most distinctly, as we have seen, that the tendency is increasingly socialistic, and that events in the social and industrial worlds are all leading to a form of society in which socialism in one shape or other will play an important part. A dignitary of the Church of England has recently said "that revolution we may perhaps escape, but that evolution in the direction of socialism he believes to be inevitable."

Probably Lord Rosebery expressed the opinion which is most

likely to be generally accepted when he said-

* Do not be frightened by words or phrases in carrying out your design, but accept help from whatever quarter it may come. The age seems to be tottering

^{*} Speech at Glasgow, 13th May, 1892.

now between two powers neither of which I altogether follow, but each of which has its seductive sirens wooing the spirit of the age to advance. The one is socialism and the other is individualism. I follow neither one school nor the other, but what I think your association may look at is to borrow something of the spirit of each, to get the best qualities of each, to borrow from socialism its large conception of municipal life, and from individualism to take its spirit of self-reliance and self-respect in all practical affairs.

Unfortunately the term socialism has been discredited by extravagant proposals and violent deeds, but it is a term which needs to be claimed for nobler uses. It is quite evident that if socialism ever becomes universal it must be by a slow process of evolution, which would not only produce the necessary economic changes, but also the moral qualities which are essential to make it successful, for success is only possible with a higher form of individualism. The best schools for the production of that among the workers will be found to be improved trade unions of the kind I have mentioned, which will lead not only to co-operation in work, but in all that relates to the welfare of the members and of the community. It is probable, therefore, that the society of the not very distant future will contain a considerable admixture of tradeunionism, co-operation, and state socialism, and that it will be found not only that there is room for all, but also that all are necessary. Moreover, as we have seen, a careful study of the inevitable tendencies of those forms of joint action shows that they are all in the same direction, and further, that a moralised individualism is not opposed to any of them, and is in fact required to render them complete.

During the next quarter of a century we may rest assured that much history will be made. In the material, social, and political worlds vast forces are waiting to be born, which will mightily influence the future of humanity. The developments of science will have placed the forces of nature more within our command, the progress of opinions will have brought many of our social difficulties within the sphere of practical politics, while the power of the democracy will be so organised as to place great experiments, which may result in good or evil, under the control of the people. One of the main objects of educationists, and of social and political reformers, should be to try to ensure that the transition from the old to the new industrial and social system will be effected almost imperceptibly, and without any break of continuity. They should try to impress all, over whom they have any influence, that sudden changes in the forms of government are of little avail, and that they are only valuable when they are the products of national character. Evolution, not revolution, is the method to be followed, and, as we have seen, the tendencies of the age are all in the direction of some form of co-operation.

Some one has truly said, "A map of the world which does not include Utopia is not even worth glancing at," for life without ideals is not truly life. If the rising generation were trained to high ideals of life and duty, and if only a small portion of the energy which is at present devoted to the pursuit of mammonism, or of the heroism which has been displayed in subjugating foreign countries, were directed and utilised in administration which had for its object the promotion of the welfare and happiness of the great masses of the people, a change might be produced within a century which would transform the world.

We may rest assured that the time has come when Britain as well as other democracies, if they are in any way to control their own destinies, must not only form a clear ideal of the goal of social organisation, but also decide as to the best and surest means of reaching that goal, and it is the duty of every citizen to endeavour to fit himself to understand the various aspects of the problems, so

that he may assist in their solution by intelligent effort.

BY VAUGHAN NASH.

THE title of this article may seem to call for some explanation at the outset. Why, it may be asked, should statistics and information bearing upon the question of mortality be classified on social lines? Are there not divisions enough amongst us during life that the masses must be separated from the classes at death? My answer must be that though the subject is as yet in a somewhat confused and uncertain condition, sufficient is known to make it quite certain that a line, and a very deep and broad line, is drawn between the life and death of all those who give their bodily labour and skill as wage earners to the services of the community, and the children of such, and those whose occupations are light and well remunerated. It is not a matter for speculation at all, but one of hard facts; and surely it is right that we should know what are the penalties exacted for the crime or privilege, whichever it may be regarded, of hard labour, why they are imposed, and whether

there seems to be any means of mitigating their severity.

I cannot deal with the question as a skilled statistician, or as a physiologist. To treat it at all adequately the best statisticians and men of science will have to be pressed into the service; but it is possible for anybody who observes the facts of life and acquaints himself with the elements of vital statistics to come to certain conclusions as to the bearing of modern industry upon the quality and extent of human life. At first sight it may seem hopeless to get beyond the familiar medical labels with which the language of the doctors and the weekly returns which are published in the newspapers by the Registrar General have familiarised us. Both in the east end and the west end the people die of diseases of the same name. Fever, influenza, and lung diseases are no respecters of persons. You may have the means of satisfying yourself that the death of your neighbour, the bricklayer, which was described as due to phthisis, was due to different causes altogether from the death of Lady C., who succumbed, so the doctor said, to the same disease. The bricklayer came by his death owing to no defects of constitution, as was the case with Lady C., but because the pursuit of his daily work led him to inhale so much of the gritty particles given off by the bricks that his lungs in the course of time became good for nothing. This was heightened by the constant exposure to all sorts of weather, and, in spite of fine physique and good constitution, he died, as we say, before his time. Or, again, we may know perfectly

well, though we might not be able to demonstrate it in black and white, that the epidemic of diarrhoa, which has been carrying off the infants in the quarter where we live, is directly attributable to the fact that the infants' parents were poor, and consequently had to go to work when they ought to have been at home nursing the children. with the result that, what with being fed on the wrong food, with neglect, and the hot weather, they died four times as fast, or more, as the children in the healthier quarter, where the houses are larger, the play of the air more free, and the mothers do not go to work.* The urban worker has to put up with less air and less space than, let us say, the urban employer or professional man, or the urban dividend receiver, and with far less than the countryman enjoys. The doctor has no name for the deaths which result from breathing impure air, or from living cramped up in stuffy and crowded rooms. He knows people die, and die in very large numbers from these causes, just as plants will die which have not fit soil to grow in or sufficient sunshine and air to nourish them. We can see in gardens or woods the lower branches of trees withering and going to pieces, whilst the upper ones prosper. This is simply because the underwood crowds out the air and sunshine from the lower part of the trees, whilst the top has free access to them. The interpretation of this little parable is sufficiently plain, but the doctors do not say "he died for want of air and light," or "he was crowded out of existence."

Now there are two main roads along which we must travel in our search for the causes which differentiate industrial mortality from general mortality. There is the environment of the home and the

environment of the worker to be considered.

We will begin by considering how the worker is affected by town life. The modern town is, of course, a purely industrial phenomenon. The excessive crowding that we find in it occurs because the workers want to live as near to their work as they can. But the density of the population is not the only directly mischievous factor in the case. As Dr. Ogle remarks:—

The direct consequences of close aggregation are probably as nothing in comparison with its indirect consequences and concomitants. The more crowded a community the greater, speaking generally, is the amount of abject want, of filth, of crime, of drunkenness, and of excesses; the more keen is competition, the more feverish and exciting the condition of life. Moreover, and perhaps more than all, it is in these crowded communities that almost all the most dangerous and unhealthy industries are carried on.

City life, then, tends to pack together into the minimum of space a maximum of wealth-making appliances both human and material, and it is in this evil and unregulated mixture of the elements of

^{*} According to Dr. Drysdale, the death rate of infants in 1889 was 11 per cent in the wealthy parishes of London, and 38 per cent among the poor of the east end.

production that we find the clue to the abnormally high death rate which prevails in many urban districts. The late Dr. Farr, whose statistical work upon these matters is historic, has brought out the relation of density of population to high death rates with admirable clearness, as the following extract from his "Vital Statistics" shows:—

It is well established that the mortality of the population of cities is generally higher than the mortality of people in the country. And it has been shown in the annual reports that there is a constant relation between the density of the population and the mortality. This has been further tested by averaging all the districts in the order of their mortality during the ten years—1861–70—and then determining the density of their population. A table presents a summary review of the results. The general mortality of the 631 districts ranged from a rate of 14 to 33 deaths in 1,000 living. If the facts are arranged in five great groups, the following result is obtained:—

(1) Where the mortality was 14, 15, or 16, the population was in the propor-

tion of 86 persons to the square mile.

(2) Where the mortality was 17, 18, or 19, the population was 172 persons to a square mile.

(3) Where the mortality was 20, 21, or 22, the population was of the density expressed by 255 to a square mile.

(4) Where the mortality was at the rate of 23, 24. or 25, the population was of the density expressed by 1,128 to a square mile.

(5) And where the rate of mortality was 26 and upwards, the average density

was expressed by 3,399 persons to a square mile.

Taking the healthy districts during 1861-70, there were 166 persons to a square

mile; in all England, 367; in Liverpool, 65,823.

The following (excluding London) mortality per 1,000 under the age of five years is in the seven groups as under:—

Females	34	 44	 58	 76	 89		 134
			10	10	$\frac{-}{12}$	10	11
				12			
Mean	38	48	63	82	95	112	146

Mem.—The groups are numbered in their order of density.

Dr. Farr continues:-

Take the group of 51 districts called healthy for the sake of distinction, and here it is found that the annual mortality per cent of boys under five years of age was 4,246. of girls 3,501. Turn to the district of Liverpool; the mortality of boys was 14,475, of girls 13,429. Is this destruction of life to go on indefinitely? It is found that of 10,000 children born alive in Liverpool. 5,396 live five years—a number that in the healthy districts could be provided by 6,544 annual births. Then the sacrifice of the lives of men at the most productive ages, from 35 to 55, is almost equally great; the deaths out of the same number living are as three in the Liverpool district to any one in the natural state of the working population of extensive districts in the kingdom.

The relation of density of population to the death rate has been worked out for the next decennium by Dr. Ogle in a table of great value:—

AREA, POPULATION, DEATH RATES, AND DENSITY IN GROUPS OF DISTRICTS, 1871-80.

		,		TEN YEARS, 1871-80	1871–80.	Mean	Mean	Persons
Annual I Per	Annual Death Rate Per 1,000.	No. of Districts.	Area m Acres.	Mean Population.	Deaths.	Annual Death Rate Per 1,000.	Density Acres to a Person.	Square Mile.
14 and under 15	er 15	œ	432,480	171,244	24,804	14.48	2.53	253
15 ,,	16	31	1,612,844	503,594	78,570	15.60	3.20	200
16 ,,	17	65	3,423,169	1,379,250	229,301	16.63	2.49	258
17 "	18	102	6,586,426	2,166,690	380,980	17.58	3.04	211
., "18	19	129	9,197,922	2,787,836	516,671	18.53	3.30	194
., 61	20	95	6,797,350	2,308,721	449,736	19-48	2-94	217
30 ",	31	20	3,421,448	2,450,483	503,702	20.56	1.40	458
21 ,,	25	46	2,412,654	2,551,807	549,573	21.54	0.95	229
., 55	23	42	1,324,840	2,692,101	607,008	22.55	0.49	1,301
23 ,,	24	30	938,134	2,666,484	627,660	23.54	0.35	1,819
24 ,,	25	27	617,059	2,088,340	509,661	24.41	0:30	2,166
25	26	14	312,350	1,375,652	351,318	25.54	0.23	2,819
., 56	27	5	76,227	350,681	92,092	26-26	0.55	2,944
27 ,,	34	9	88,669	850,906	257,247	30-23	0.10	6,144

The foregoing figures are the last available for the whole country, and we cannot expect to have the results of the last census grouped by the Registrar for another couple of years. We shall probably find when these are published that there has been a slight improvement, that the intensity of crowding is somewhat less, and that the death rate in the crowded centres is less excessive. It does not do to be too sanguine on these matters, however. Though there is undoubtedly more vigilance and more science put into their sanitary work each year by the local authorities, local conditions are often too much for them, and such sanitary measures as are adopted apply to only a part of the mischief-making conditions. There is a general concensus of opinion now in favour of attacking infectious diseases root and branch, and eradicating their causes as far as may be. a conspicuous case in point, but the crusade against typhoid with the necessary measures for safe and effective drainage, though immensely important, is after all directed against only one of the monstrosities of town life. We can, however, with the help of the medical officers' reports of some of the great towns, bring Dr. Ogle's figures sufficiently up to date to satisfy ourselves as to the progress that has been made in certain typical cases. If we take the annual report on the health of the Borough of Sheffield for the year 1891, we find at a glance what seems a fairly satisfactory allowance of space, the average for the whole borough being 16.5 persons per acre. On looking a little more closely into it, however, you find that whereas the allowance in the Upper Hallam division is 0.4 persons per acre, that in Sheffield North is 234:1; in Sheffield West, 71:1; and in Sheffield South, 72.8. These great variations are instructive as showing how misleading it is to lump together the industrial and non-industrial districts of a town for the purpose of such calculations Upper Hallam is, of course, the favoured and suburban district in which dwell the manufacturing and professional classes of Sheffield, whilst the congested districts are peopled by the artisans for whose skill Sheffield is celebrated. The death rate for the entire borough is equally misleading. The death rate for the year 1891 was 23.5, which gave Sheffield the twenty-eighth position amongst the large towns. But the medical officer points out that after allocating various deaths to their proper districts and distributing those which occurred in public institutions, whereas in Upper Hallam the death rate was only 12.5, it was 33.4 in Sheffield North, and 31.7 in Sheffield West. Let us hope that the great cutlery centre is an exceptionally bad case, for its death rate was higher in 1891 by three per 1,000 than it was in 1881.

London is a remarkably healthy place taking it altogether, and the death rate has been reduced by four per 1,000 in the last twenty years. It now stands at 20 per 1,000. But London has its Upper Hallams

as well as Sheffield, its St. George's, Hanover Square, as well as its St. George's-in-the-East. It does not make life a moment longer for the dock worker of East London or the costermonger of Southwark to know that the people of Kensington, Notting Hill, and Wandsworth are bettering their chances of life each year. Southwark medical officer's report for the year 1892 shows that there is a district in that great wilderness of poverty where people die at the rate of 33 per 1,000 per annum—where, out of every 1,000 children born, 220 die under the age of one year. The average density for the whole of London is 67 per acre. In this district each acre is packed with 259 souls. London is well provided with some of the most magnificent open spaces possessed by any town, but the only recreation grounds in this district are the disused burying ground of St. George's Church and the Lock Burial Field, and these small and dolorous grounds are filled with plague and cholera cases. Imagine what the condition of life must be in a district where death is so rampant. A lady who has lately been much in the district, and who has spent years of her life amongst the poor of Whitechapel, told me that she did not know what poverty was till she found herself in Southwark, where semi-starvation is the chronic condition of a very large number of the inhabitants, and sickliness and disease are written on innumerable faces.

Abundant similar contrasts are to be found in the metropolitan district. Thus, in Hampstead there are 30 persons to the acre; whereas in St. Giles' there are 166; in St. George's-in-the-East, 188; in the district of Marylebone, 217; and in Bethnal Green, 230. Newcastle-on-Tyne showed a death rate of 23.6 in the year 1891, but there was one district in the city which I find gives the almost incredibly high rate of 60. There is no need to multiply instances in greater or less degree, for all the manufacturing and trading centres of the country have these precipitous death frontiers dividing the poor from the well-to-do districts. There is no getting over the evidence. The city death tax, to use an expression of Dr. Farr's, is a heavy one indeed, and its incidence falls most heavily upon those whose only capital is in their health and strength. It cannot be repeated too often that the conditions under which vast numbers of us are living are abnormal. Adaptable as man is, nature draws the line somewhere, and human life simply refuses the terms which are offered to it by modern industry. That is the point to be remembered. We are subordinating happiness and comfort, banishing the beauties and delights of nature and art, and sacrificing scores of thousands of lives simply and solely because of our modern industrial arrangements. There are certain conditions under which such a sacrifice may be justified, but I fancy that few people will justify this on the strength of its results. Where, be it

remembered, we find that a high death rate is constant, we find as a complement to it a population of stunted, feeble, and half-developed human beings. So far as they are concerned, the capacity for enjoyment, or even for demanding a better condition of things, does not exist. It may be held by some that the trading classes or the national commerce—that misleading abstraction—gain something in exchange for so many souls; however, it will not do at this stage to break off into this side of the question. It is sufficient to know that the problem being closely bound up with our trading methods, co-operators have a vital corporate interest as well as a personal one in laying hold of and, as far as may be, dealing with the facts.

The question of infant mortality is closely bound up with the whole subject of industrial health. Infants are naturally more susceptible to the conditions of life which surround them than those who have weathered the storms of childhood, and whilst they afford a test of the health of the district and the hygienic conditions to be found there, it is too often only gained at the expense of their lives. This massacre of the innocents which is going on year by year unchecked is one of the most, if not the most fearful thing which our town life has to show. It is all very well for people to say, as they constantly do—"Ah, but it is the parents' fault, the ignorance of the mothers or the carelessness of their neighbours with whom the child is left." How is it, then, that the child of the agricultural labourer manages to survive so much oftener than the town child? Are the mothers who live in the country so much more careful and better educated in maternal duties than those who have to bring up their offspring in the towns? The thing is absurd. The country child may have poorer parents, parents whose wages do not amount to more than one-half or one-third of the town workman's; but then, the country parents can give their children what the others cannot have—clean, fresh air and abundance of space and food which, if poor, does not consist of opiates or adulterated messes. There are. however, other aspects of the question to be considered besides the deprivation which all town children must suffer more or less from pure air, sunshine, and space. I allude to the case of children in factory towns where the mothers are frequently working in the mills There is convincing evidence to show that there is a and factories. special factory death tax to which the children contribute as well as a city death tax. Twenty years ago Dr. Farr constructed the following table, which puts the matter in the most graphic form. He takes, it will be seen, the towns of Oldham, Nottingham, Manchester and Salford, Leicester, Leeds, Norwich, Portsmouth, and London. Against each town he sets the number of women of twenty years of age and upwards, specifying those who are engaged in textile

						TULANT
Towns.	Females Enumerated, Twenty Years	NUMBERS ENGAGED IN	NGAGED IN	TO EVERY 1,0 PROPORTION	TO EVERY 1,000 LIVING, THE 1873-75. PROPORTION EMPLOYED IN	Mortality— 1873-75.
	of Age and Upwards.	Textile Manufactures.	Household Duties.	Textile Work.	Household.	Death Rate #1,000 Births
Oldham	32,343	. 11,178	15,961	346	493	180
Nottingham	27,171	6,758	12,429	249	457	200
Manchester and Salford	150,019	22,750	81,245	152	543	188
Leicester	27,677	3,368	15,017	122	543	217
Leeds	72,719	6,776	47,873	93	829	201
Norwich	25,684	1,478	13,874	58	539	183
Portsmouth	31,504	:	21,460	:	681	146
London	1,022,419	:	585,506	:	573	159

manufactures and those who are engaged in household duties, and the proportion these bear to the total number of women. gives particulars of the infant mortality for the period 1873 to 1875. It comes out at once that in those towns where a large percentage of women are employed in the mills, an abnormal percentage of infants succumb. Thus in London, where half of the women are classified as being engaged in household duties, the death rate per thousand births is 159. In London we observe also that there is practically no textile labour at all. If we take Portsmouth, where two-thirds of the women are engaged at home, we find the death rate per one thousand births is 146. Leicester, on the other hand, shows a death rate of 217; Nottingham, 200; Oldham, 180; Manchester, 188; and Leeds, 201. It is quite true that a very large percentage of women in these places do not go to the mills, but note the number who do. In Oldham they are set down at 11,000; Nottingham, 6,000; Manchester and Salford, 22,000; and Leicester, 3,000. inference is that the excess of mortality in these cases is simply due to the conditions of factory labour, which tend to reduce the health and vigour of the mother, and which necessitate the placing of the child in the care of strangers who cannot, even with the best of intentions, nourish and tend the factory nursery as a mother can her own children. Dr. Farr does not drop his inquiry here. He proceeds to classify the main causes of death amongst infants during these years, and in another table he divides these out amongst the group of textile towns and compares the results with the mortality and statistics of London, which serves as the basis for the non-textile towns. In the first column he shows the number of infants carried off during the years 1873-74-75 from eleven different causes, whilst in the second column is given the excess or deficit as shown by seven towns in which textile manufacture is the staple industry. A glance at the following table shows the terrible havoc played by diarrhœa, convulsions, atrophy, debility, and premature birth. Thus in London diarrhea was represented by 20.4, in the factory districts by 31.9; convulsions in London by 18.5, in the factory towns by 27.4; in London, atrophy and debility by 20.5, in the factory districts by just double that figure, viz., 40.9. In London premature birth is 10.4, and in the factory towns 13.8. These figures refer to a period of twenty years ago, but unfortunately the evidence points to no improvement whatever—in fact, the state of things is worse rather than better to-day. The Registrar General, in his last annual report which gives the vital statistics of England for the year 1891, is so impressed by the state of things that he refers to the subject in even more detail than did Dr. Farr. takes three towns-Leicester, Preston, and Blackburn-in which the rate of infant mortality has been sustained at an abnormal height

through the whole decennium of 1881 to 1890, during which, in fact, these three towns had the highest infant death rate of all the towns included in the weekly returns. Then he takes another group of five mining and manufacturing counties, and a third group of rural counties. Starting from the basis of 100,000 births in each of these three groups during the years 1889–90–91, he compares the deaths, with their causes, of children under one year of age, and these are again sub-divided into periods of three months, six months, and twelve months.

*CAUSES OF INFANT MORTALITY IN TOWNS IN THE THREE YEARS 1873-5.

Causes of Death.	London.	TEXTILE MANUFACTURING TOWNS.
- 10	Death Rate per 1,000.	Excess or Deficit of London.
All causes	159·1	+ 34.9
The eleven subjoined causes	135.6	+ 31.9
Measles	3.1	+ 0.1
Scarlet Fever	$1\cdot 1$	+ 0.5
Whooping Cough	8.3	- 1.9
Teething	3.6	- 0.4
Diarrhœa	20.4	+ 11.5
Convulsions	18.5	+ 8.9
Lung Diseases	31.9	- 3.8
Tubercular Diseases	13.8	- 3.3
Atrophy and Debility	20.5	+ 20.4
Premature Birth	10.4	+ 3.4
Suffocation	4.0	- 3.5

^{*}In the above table the death rates from each of the eleven causes in these seven textile manufacturing towns in the aggregate are compared with those in London, and the results indicate in a striking manner that over and above a certain proportion of the mortality which may be attributable to indifferent sanitary arrangements, the causes most fatal to infant life in factory towns, and which are inseparable from bad nursing and feeding, are diarrhoea, convulsions, and atrophy. The mortality from premature birth was also in excess. Thus the respective death rates of infants in London and in the seven factory towns were—from diarrhoea, 20·4 and 31·9; from convulsions, 18·5 and 27·4; from atrophy, 20·5 and 40·9; from premature birth, 10·4 and 13·8 per thousand.

In the table which follows he gives the general result:—

		00 born, the ving at each		living	Death Rates j in each succ terval of Age	essive
Age.	Three Rural Counties.	Five Mining and Manu- facturing Counties.	Three Selected Towns.	Three Rural Counties.	Five Mining and Manu- facturing Counties.	Three Selected Towns.
At Birth	100,000	100,000	100,000	213	331	382
3 Months.	94,820	92,051	90,874	75	154	240
6 ,.	93,068	88,574	85,574	61	128	180
12 ,,	90,283	83,081	78,197			

It will be seen at once that whilst in the selected rural counties there are in round numbers 10,000 deaths of children under the age of one year, there are 22,000 deaths in the towns of Leicester, Preston, and Blackburn, whilst the mining and manufacturing districts lie between the two. I ought to mention that of the three agricultural counties, Hertfordshire, Wiltshire, and Dorsetshire, and the five mining counties of Staffordshire, Lancashire, Leicestershire, West Riding, and Durham, the latter comprise some of the selected textile towns as well as certain industries which are notoriously unhealthy and a big sprinkling of great towns where overcrowding and bad sanitary conditions exist, so that the health standard is by By means of another table, the results of which no means a high one. I will summarise, the Registrar ascertains that there are certain particulars in which the counties and the towns agree. mortality is at its maximum in the first week, it falls enormously in the second week, remains at much the same level in the third week, and then shows a considerable decline in the fourth week, though even in the fourth week the mortality is very high. Passing from weeks to months, the mortality falls in the second month to a small fraction of its previous height, and then gradually continues until the seventh or eighth month, after which no noticeable change takes place through the remainder of the period, though there is a tendency to further decline. These points distinguish infantile mortality generally, and they are to be observed alike in rural and mixed industrial and factory districts. When we come to the points of difference we find that the manufacturing rate, besides being considerably more than double the rural rate, is higher for each fraction of the year with the exception of the fourth, fifth, and sixth days of the week after birth. Then again, and this is a most important point, the town rates are

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most in excess of rural rates not in the earliest weeks or months of infancy, but in the later months. In the first week of life the Registrar points out that the town rate exceeds the rural rate by 23 per cent, in the second week by 64 per cent, in the third week by 83 per cent, and in the fourth week by 97 per cent, thus showing a progressive or accumulative increase in the deleterious effects of town conditions as compared with rural conditions upon infantile life. Taking months instead of weeks, in the first month the town mortality is 27 per cent above the rural rate, in the second month 121 per cent above it, and the excess goes on amounting up until the sixth month, when it stands at no less than 273 per cent. It is in this sixth month that the difference is greatest, though it remains throughout the rest of the year at not a very much lower point. But if we are to trace this wholesale sacrifice of life back to its causes we must know from what the child died. Accordingly, the Registrar has had the causes of death for the three years extracted in the case of the 100,000 rural infants and mill babies. foregoing tables, which are the first of the kind ever prepared, are of such extreme importance that we append them in full.

The inference which must be drawn from Dr. Farr's tables is If we glance at the deaths ascribed to diarrhea, premature birth, atrophy, and convulsions in the towns and the rural districts respectively, we find most appalling results. instance, whilst 480 of the country children died from diarrhæa and disease during the three years, the Preston, Leicester, and Blackburn figures stand at 3,961. Convulsions, again, are represented by 1,381 in the country, and 3,776 in the towns. Atrophy was 1,738 in the country, and 2,734 in the towns. Premature birth stood at 1,381 in the country, and 2,279 in the towns. If we take enteric fever and diarrhœa together, we find that the mortality from these diseases is more than seven times as great in the towns as in the country. Again, measles and scarlet fever, which the Registrar General points out are spread by the close aggregation, are considerably more than three times as high in the towns as in the countries. Turning back for a moment to Dr. Farr's first table, we find that whereas Leicester then (which stood highest in his list of textile towns) was represented by a death rate of 217 per thousand births, the figures for the period nearly twenty years later for the three towns of Preston, Leicester, and Blackburn were represented by 218. This shows clearly enough that nothing has been done to check the evil. If we could assign the real causes to the deaths of these children, in how many cases should we have to put on the death certificate that the child died because the mother worked in the mill, because of improper feeding with the neglect which comes not through ignorance or carelessness but through the unnatural course of things

which gives to a stranger the care of a child. The fearful number of deaths from diarrhea is unquestionably due to this latter fact. Anyone who reads the weekly returns from the great towns must notice how in the hot months the death rate of the textile towns leaps up to something like double the normal figure, and closer inspection shows that this is very largely accounted for by the deaths of children from diarrhea. In Leicester, which is known amongst medical officers and medical men as one of the diarrhoea towns. there is such a scare amongst the well-to-do people during the months of August and September that they leave the town and go away to the country or the seaside. But the Leicester well-to-do people need not be frightened; the children who die are the children of the poor and the children of mothers who go to work, and are consequently not brought up but let out to be cared for. The Registrar is somewhat guarded in his expressions on this point, though he is forced to admit that in the case of mortality from premature birth "part of the excess may be ascribed with much probability to the employment of young married women in the textile factories."

What one would like to know is, what the Local Government Board is going to do failing the action of the local sanitary authorities and the intervention of the law in the shape of the Factory Act. Are we to carry local government to such a pitch as to license these manufacturing towns to murder as many children annually as they please? And if infanticide is not to become a recognised British institution, what steps are we to take to put an end to it? The industrious compilation of statistics and scientific treatment of them will not lessen infant mortality, but it is for the administrators of the country and those who make its laws to take these statistics, to gather their bearing and to check the evil by the

adoption of preventive regulations.

The influence of occupation upon life and health has not been studied to the same extent as other aspects of the public health question. For some reason or other it has scarcely claimed any attention on the part of medical men, whilst no body of public opinion to speak of has been formed on the question. Of course, there has been a strong feeling against the more obviously barbarous forms of labour which existed unchecked in the case of women and children before the Ashley $r \`egime$. When the nation found out that children of five years of age were being sent down the mines, that women were crawling along on all-fours dragging after them corves of coal fastened to their bodies by chains, that the tender bodies of infants, who in well-to-do families would scarcely have been out of the nursery, were being tossed into the Lancashire mill and sucked dry of all their little strength, a fit of passionate indignation seized it,

and in defiance of all economic teaching and the protests of the freetraders, Cobden, Bright, and Gladstone, laws were made limiting the hours of child and female labour, and the age at which certain occupations might be begun. It took years to work up this strong human feeling on the question, but when once it was brought home to the country and to Parliament only the most inveterately commercial-souled of men stood up for the abominations which were practised in the name of commerce. Unfortunately, the men of science were not called in as in the case of the Public Health Act. The administration of the Factory Acts, which embody our industrial hygienic code, was left in the hands of men totally unversed in the science of health. Parliament having drawn up certain regulations which were calculated to check unsanitary evils, left the rest to the administrators, and the administrators, in their turn, to Providence. The consequence is that to-day we have to buckle to again to fill up the gaps which have been left in our Factory Acts. We have to find out, in the first place, to what extent those Acts are simply a legislative framework or an administrative reality, and alongside of this inquiry we must pursue the same line of investigation in regard to the influence of occupation upon health as was pursued by Dr. Farr and Sir John Simon in their researches into urban mortality. There is no sort of doubt that the kind of work which men and women do has a close effect upon the health and vitality of those engaged. The shop assistant, who stands behind the counter for seventy or eighty hours a week; the clerk, who stoops over his desk for many hours a day; the tailor, who incessantly repeats the same motions with the same set of muscles; the cotton spinner, whose nerves are incessantly on the strain in the race with the swift machinery; the ironworker, who passes from the terrific glow of the great furnaces into the chill night air; the coal miner, screwed up into a space as small as a grave, hewing and picking at the coal; the blacksmith, working like a Titan; the chemical-worker, straining with his huge iron rake at the glowing mass inside the furnaces, breathing poisonous vapours instead of pure air; the potter, working all day in a room the hot and stuffy air of which is filled with minute particles of stone which tear and irritate his lungs as they are inhaled, plunging the ware into the vats of liquid poison which are to give the glaze of which Staffordshire is so proud; the cutler, cramped up in his wretched cabin in some Sheffield slum, bending over the wheel which grinds out a stream of deadly particles of iron and stone; the seamstress and the tailoress, stitching and stitching in the confined rooms where they sat when the "Song of the Shirt' rang in men's ears; the baker, stewed in an underground den; the arsenic and whitelead worker; the japanner and brassworker. These and the great category of textile workers who follow the swift

machinery, and breathe the close unwholesome air of the mill with its deadly mixture of fibrous dust, have all of them their special stories to tell, if only they knew how, of the effects of their industry upon their health.

But the worker as a rule is not in a position to tell the story. He does not trace the effect back to its cause. The Sheffield cutler who is dying from consumption will tell you that on such and such a day he got a cough, which has steadily got worse. The mill girl in Belfast, who lives on a diet of bread and tea, and works all day long in a moist and tropical atmosphere, finds her strength giving way; she, too, has a cough, but she does not know why. The doctor tells her presently that she is in a consumption, and she and her friends suppose that the end is coming in the appointed way. many other classes of workers. Habit is second nature, and the habits and surroundings of their lives are accepted unquestioningly, and when health breaks down they attribute it to natural causes. Now, there are two main divisions into which these industrial diseases may be classified. Certain of the workers enumerated above suffer from the conditions which surround their work, such as closeness of atmosphere, excessive heat, and alternations of heat and Others suffer from immediate contact with their work-for instance, the whitelead workers, arsenic workers, and chemical men, and with these we may include those who suffer from the extreme intensity of toil, like blacksmiths, who reach the high-water mark of vitality at the age of eighteen. We must, therefore, keep in mind the environment of the workers, the amount of space, light, fresh air, &c., allotted to them, and the particular nature of their work itself—for instance, the poisonous properties of materials, the offensive and injurious matters given off during the process of manufacture, and which assume various forms of poison, dust, and vapour.

Taking the surroundings of the workers first, there is no need to spend time in insisting upon the vital importance of a proper supply of fresh air, yet for lack of realising all that this means we are paying a terrible death and disease tax every year. You cannot batten up so many men and women in a workshop or factory day after day and week after week with an insufficient amount of pure air and expect them to keep up a healthy standard of life. The thing is a physical impossibility. Just as the human organism revolts against being expected to assimilate impure water or putrid food, so does it protest against being expected to keep up the natural chemistry of life upon poisonous air. I may here, by way of illustration, give the effects of pure and impure air upon the health of the troops. The Sanitary Commission which inquired into the health conditions of the army, and which was appointed through the instrumentality of Miss Florence Nightingale, brought out the fact

that whilst in civil life (as illustrated by the population of twenty-four large towns) the deaths from pulmonary diseases at the soldiers' ages were 6.3 per 1,000, they amounted in the cavalry to 7.3, in the infantry of the line 10.12, in the guards 13.8 per 1,000; and of the entire number of deaths from all causes in the army, diseases of the lungs were responsible in the cavalry for 53.9 per cent, in the infantry of the line 57.277 per cent, and in the guards 67.683 per cent. Now in the army the soldiers are on the whole well fed and well clothed. Whence, then, this excessive mortality from pulmonary diseases? The commissioners say:—

They are to be traced in a great degree to the vitiated atmosphere generated by overcrowding and defective ventilation and the absence of proper sewerage in barracks. This one cause acting with such intensity especially when superadded to a certain amount of exposure, has not only produced in the foot guards an amount of disease in question which is greater than is produced in civil life by all the four causes united, but which actually carries off annually a number of men in the infantry equalling, and in the guards actually exceeding, the number of civilians of the same age who die of all causes put together.

Sir John Simon, the late Medical Officer of Health to the Privy Council, in a retrospective article on his work, remarks:—

We had shown that death and disease in very large quantities were accruing from removable causes which attached to certain branches, and in general most extensive branches, of national industry, so that certain large district populations had, so to speak, their epidemic diseases almost as marsh populations have ague; that in several of these the workers were suffering from tubercular phthisis in terrible amount through the over-crowdedness and unventilatedness of the spaces allotted to work; that in several others the workers were suffering not less terribly from non-tubercular (viritaline) disease of the lungs because of the absence of reasonable care to remove from the industrial atmosphere the dust and other vitiating matter which the industry tended to diffuse in it.

It will be noticed that Sir John Simon divides phthisis into two classes, the one being due mainly to bad air and exposure, and the other to the admission into the respiratory passages of irritating substances. In the following table, which is drawn up by Dr. Ogle, of the Registrar's department, from the figures supplied in the census of 1881, a graphic presentation is afforded of all the ravages of phthisis and respiratory diseases amongst certain classes of trades.

It is impossible to separate the two classes here. In many cases—for instance, in that of earthenware manufacture—no doubt the operatives die largely from both causes, and this would be true in the case of cotton manufacture. With cutlers, on the other hand, a greater proportion of deaths would be due to the irritant nature of the metallic particles inhaled. Look, however, at the fisherman, who, in spite of constant exposure to all sorts of weather and temperatures, is infinitely less the victim to pulmonary complaints than any of the indoor workers. Where 198 fishermen die from

SOME ASPECTS OF INDUSTRIAL MORTALITY.

Occupation.	Phthisis.	Diseases of Respiratory Organs.	Phthisis and Diseases of the Respiratory Organs.
Coal Miner	126	202	-328
Carpenter, Joiner	204	133	337
Baker, Confectioner	212	186	398
Mason, Builder, Bricklayer	252	201	453
Wool Manufacturer	257	205	462
Cotton Manufacturer	272	271	543
Quarryman	308	274	582
Cutler	371	389	760
File Maker	433	350	783
Earthenware Manufacturer	473	645	1,118
Cornish Miner	690	458	1,148
Fisherman	108	90	198

these diseases, the table shows that 1,148 Cornish miners, 1,118 earthenware operatives, and 543 cotton operatives die. We must refer to this table again later on when we come to consider the diseases of occupation more in detail.

Before we go any further it may be as well to point out where the law stands in regard to these matters. So far as the structure of workshops and factories is concerned there are no regulations whatever. It is only after the place is built and the plant laid down that the law steps in and says, adequate provision must be made for ventilation and for cleansing the air of all the impurities generated Without deprecating in any way in the course of manufacture. those regulations which the Factory Act is supposed to enforce, common sense suggests that it would be better for the State to step in before instead of after the factory is built. Of course, what happens is that the architect, the manufacturer, and the engineer do not trouble their heads about anything except the strictly manufacturing purposes to which the mill, factory, or workshop is to be put; and in a large proportion of cases the factory inspector, who knows absolutely nothing about the science or practice of ventilation himself, is powerless to suggest a way by which the place may be fitted for human beings whose lungs are constructed in the ordinary way. Theoretically, the Act gives powers to enforce a sufficient supply of space and pure air to everyone; in practice, the theory utterly breaks down. I have looked through the list of convictions under the Factory Act for the last few years and can find no single case in which proceedings have been taken against a manufacturer for the infringement of the Act in respect to space or

ventilation. The factory inspectors must not be blamed too severely for their inaction in the matter, because they do not pretend to be qualified for the extremely difficult duties in respect of health supervision which are laid upon them, but it reflects little credit upon the authorities at the Home Office that for many years past they have been pretending to administer the Act, which, so far as its hygienic features are concerned, there are no proper means of carrying out. We do not appoint retired naval captains or army officers as medical officers of health, and yet we expect gentlemen drawn from varied and promiscuous walks of life to discharge duties of a very similar nature in connection with factories and workshops. This is a piece of administrative neglect which has probably cost more lives than all the wars in which England has been engaged during the past half century. Either we should abandon the pretence of securing healthy conditions for the operatives, or proper steps should be taken, first to lay down a standard of what is necessary, and secondly to appoint properly qualified officers to see that this is kept to, and those who break the law should be treated with at least as much severity as vendors of rotten fish or putrid meat. It is only another instance of the sheer levity with which the interests of life and health, as compared with the interests of property, are treated by the Government and Civil Service, which is mainly drawn from the ranks of those who do not realise the facts of the workman's life, and whose own health is subject to a different set of conditions altogether from those which have so powerful a bearing upon industrial mortality.

The mass of working men and women are still living and working under conditions which are the same as Dickens described in his

wonderful sketch of Coketown :-

Coketown was a town of red brick, or of brick that would have been red if the smoke and ashes had allowed it; but as matters stood it was a town of unnatural red and black, like the painted face of a savage It was a town of machinery and tall chimneys, out of which interminable serpents of smoke trailed themselves for ever and ever and never got uncoiled. It had a black canal in it, and a river that ran purple with ill-smelling dye, and vast piles of buildings full of windows where there was a rattling and a trembling all day long, and where the piston of the steam engine worked monotonously up and down like the head of an elephant in a state of melancholy madness. It contained several large streets all very like one another, inhabited by people equally like one another, who all went in and out at the same hours, with the same sound upon the same pavements, to do the same work, and to whom every day was the same as yesterday and to-morrow, and every year the counterpart of the last and the next. These attributes of Coketown were in the main inseparable from the work by which it was sustained. . . . You saw nothing in Coketown but what was severely workful. If the members of a religious persuasion built a chapel there, as the members of eighteen religious persuasions had done, they made it a pious warehouse of red brick, with sometimes (but this is only in highly-ornamented examples) a bell in a birdcage at the top of it. All the public inscriptions in the town were painted alike, in severe characters of black and white.

The jail might have been the infirmary, the infirmary might have been the jail; the town hall might have been either, or both, or anything else for anything that appeared to the contrary in the graces of their construction. Fact, fact, fact, everywhere in the material aspect of the town; fact, fact, fact, everywhere in the immaterial. The McChoakumchild school was all fact, and the school of design was all fact, and the relations between master and man were all fact, and everything was fact between the lying-in hospital and the cemetery, and what you couldn't state in figures or show to be purchasable in the cheapest market and saleable in the dearest was not, and never should be, world without end, Amen.

We have glanced already at the impression which these streets of Coketown leave upon their inhabitants. Let us now see what sort of human fabric is being spun and combed out in these throbbing mills, what pattern of flesh and blood the decorative and ornamental arts, as we are carrying them out, is tracing, how fire and vapour fulfil the word of the manufacturer upon men as well as metals. Take that district of Coketown known as Sheffield. Everyone is proud of Sheffield, and its manufactures boast that wherever the British flag flies there is Sheffield trade; and when it flies for war, Sheffield steel is not far off. It has a school of protection of its own for Sheffield goods, so keen is the pride it takes in its cutlery. But what a life the Sheffield workman lives who earns his bread at the Here is what the Medical Officer for Sheffield says grindstone! about the place where these men live and work:—

Houses of the poorest description, with damp walls and cellars, in many instances standing several inches deep in water, contaminated with sewage and giving out foul gases into the rooms above; courts confined and occupied by large, sodden privy-middens so near to the dwellings that ventilation becomes impossible and absolutely dangerous; sink pipes discharging in the channels, usually defective, and allowing the slops to form stagnating pools before reaching the gullies which are situated often fifty yards away; or, what is worse, permitting of percolation into the soil of the yard. All these conditions exist in many parts of the district, and no doubt are largely accountable for the high death rate. At present almost every available foot of ground is occupied, if not by houses by privies, stables, or outhouses; the air is stagnant and the ground polluted with sewage and decomposing matter.

Hundreds of these wretched jerry-built slum houses have been turned into workshops in which the grinders and cutlers stoop over their wheels. Somewhere in the court a gas engine is working, and a network of bands are connected with the wheels which whiz around in every dark hole and corner that they can be squeezed into. You go up ricketty ladders into lofts, where the boards are worn and covered with an ancient grime of steel and stone particles of file dust and filth. Here you will find women finishing off the men's work. Very likely the water comes through the roof when it rains and lays the dust. The grinders and cutlers rent these places. They enjoy the privilege of freedom, which, in this case, is one of the strangest and most ghastly privileges men could claim. They have their own wheels and their own tools. They pay so much rent for the place,

so much rent for the gas, and so much rent for the power; meanwhile, the manufacturer, so called, sits in his warehouse or office giving out steel in the rough, first to the forger who passes it to the grinder, and so on to the polisher and finisher until the round is completed and the finished stuff comes back into the other door "warranted best Sheffield cutlery." The trade is a highly skilled one, and the work is extremely hard. The wages run from 16s. for light grinders, to 25s. for heavy grinders. The wages of Sheffield are literally death. The lungs of the cutler and grinder get charged in the course of time with the metallic particles given off during their work, and they contract that form of phthisis locally known as "grinder's rot." These particles, owing to their mineral constitution and sharp jagged outline, are peculiarly harmful, and at last the lungs can stand it no longer and cease work.

The following tables are extracted from the reports of the Medical

Officers of Health:-

1888.	
Grinders died from all causes	99 58
Cutlers died from all causes	156
Cutlers died from phthisis and respiratory diseases	73
1889.	
Grinders died from all causes	101
Grinders died from phthisis and respiratory diseases	64
Cutlers died from all causes	130
Cutlers died from phthisis and respiratory diseases	59
1890.	
Grinders died from all causes	131
Grinders died from phthisis and respiratory diseases	92
Cutlers died from all causes	171
Cutlers died from phthisis and respiratory diseases	98
1891.	
Grinders died from all causes	121
Grinders died from phthisis and respiratory diseases	87
Cutlers died from all causes	147
Cutlers died from phthisis and respiratory diseases	77

If the 131 grinders who died in the year 1890 had shown the average health conditions of the country, not 92 but 27 ought to have died from phthisis and respiratory diseases. The figures show how terribly large is the proportion of these diseases to the total number of deaths, and yet Dr. Littlejohn, the Medical Officer of Health, asserts that they fall far short of the actual facts, as many workmen at the cutlery trade when their health begins to fail go into some lighter occupation under which their deaths are registered.

In the Potteries people are dying or living only half-animated lives from much the same causes as in Sheffield. The string of towns, Longton, Fenton, Stoke, Hanley, Cobridge, Burslem, and

Tunstall, are all so many sigments and repetitions of the "Coketown" of "hard times." The same pall of smoke hovers over them and penetrates the air which people breathe, and smears the red brick till it turns black. The amount of unconsumed smoke that settles in the form of soot every day in the Potteries is something depressing to think of. The manufacturers throw the waste and rubbish. which amounts to tens of thousands of tons in the course of a year, out into the country around and down in the valleys, so that the Potteries seem to be getting embedded in a wilderness of scavengings. Then there are the great heaps of slack from the collieries, and the multifarious accumulations from ironworks and other manufactories, which spread desolation over the country and makes such feeble greenery as can survive against the smoke look like a mockery to "Potter's rot," which carries off the people in these parts, is closely akin to the Sheffield "grinder's rot." Doctors call it phthisis or consumption, but it has nothing to do with the tubercular form of that disease, though it may exist in connection with it or awaken the germs when the sufferer is predisposed to tubercular trouble. The fibroid phthisis, which is the scientific name, signifies that potters are stricken down by the work by which they earn their livelihood, because of the fearful quantity of dust generated in the manufacture to which they are exposed. This dust is of a most Walking through the rooms where the men and women are at work you may not notice it, but when you come out you find your clothes are covered with a sprinkling of white powder. The air gets charged with this, and not only is it given off by the swift rotating ware as it comes into contact with the finishing tool or the sand paper, but the moist clay, which gets broken off into fragments and falls about the workshop, dries into powder, which the vibrations of the floor caused by the jolting and thumping of machinery, and the movements to and fro, tend to keep in Here again, as in Sheffield, the dust is a mineral one. There are particles of stone and bone in the composition, and worst of all, a flint which is broken up into the most vicious tearing atoms. Nearly everyone engaged in the potters' shops get their share of dust. though those who work with lathe, jigger, or jolly, as the whirling stands are called on which the ware is shaped, get the biggest share of it. The reader will readily understand that when a sharp tool is held to earthenware that has been already baked, a fine spurt of dust must be the result. Multiply this spurt by a few dozen or a few score, and you have the process which is continually going on. In some instances manufacturers have put up ventilating fans which carry off a considerable percentage of the dust. In many there are no arrangements whatever of the kind. The women who suffer most are the towers and the china scourers. The tower's business is to

put a finishing on the surface of the ware by means of sand paper or some other rough surface, and she sits all day long stooping over a small cyclone of dust. Where proper fans are not installed she is doomed. So, too, is the china scourer, who brushes the particles of flint from the ware when it comes from the saggers, or great earthen vessels, in which there has been packed a bedding of flint dust. There is scarcely a china manufactory in the Potteries which has made any provision whatever for carrying away this terrible flint dust. The women's faces and hair are frequently white with it, and in the majority of cases they are only able to work for a few years

before they utterly break down with the "potter's rot."

A glance at Dr. Ogle's table some pages back, showing the deaths from phthisis and respiratory diseases in various trades, will show the reader the position of the potters in this ominous category. There may have been some slight improvement since these figures were taken out, but not much. Dr. Ogle's figures show that in Hull there was a higher mortality figure for the decennium ending 1881 than for that ending in 1871. Since then, however, a good many manufacturers have introduced better ventilating arrangements. Dr. Arlidge, who has spent a great part of his life in the Potteries, where he has held the post of Certifying Surgeon and of Physician to the North Staffordshire Infirmary, has collected statistics which show how much more severely the dangers of dust and poisoning are felt in some departments of the work than they are in others. He finds that the pressers who have been treated in the infirmary show an appallingly heavy proportion of pulmonary disorders. Out of 263 pressers, bronchitis was present in 55.5 and phthisis in 17.8. In other departments the figures were bad enough, but not so terrible as these. It is a well-known fact that many of the children in the Potteries whose mothers are engaged in the factories are born with a predisposition to lung troubles, whilst the rate of infant mortality is excessively high. Lead poisoning is present in this trade in a much larger degree than is generally known, for the raw whitelead is used in very large quantities to produce a glaze upon the earthenware and china. It is impossible for the workpeople to come into contact with this lead either in the liquid form in which it is spread upon the ware or in its dry and powdery state without suffering from it, though there are a few exceptional cases, where the constitution appears to get seasoned to what is in fact a most deadly poison. Every year at the North Staffordshire Infirmary a large number of cases of lead poisoning are treated, whilst if you move about amongst the people, or extend your explorations to the Stoke workhouse, you find a pitiable number of cases in which chronic paralysis has been the outcome of contact with the lead. have seen young girls in the Potteries ruined for life from this cause.

Cases of lead colic are also plentiful, and when once this hideous and agonising disorder has made itself felt it is pretty certain to recur at longer or shorter intervals whilst the victim remains at the occupation. The third form of lead poisoning is that in which the poison touches the brain, and the sufferer dies in a series of convulsions. Such cases occur every year in the Potteries. There, as in other trades where lead poisoning exists, the sufferers are mostly young women. Dr. Arlidge notes that out of 60 persons employed in the dipping house (that is the department where the ware is dipped into the great vats of liquid glaze) who applied for medical advice, 47 suffered from colic or paralysis, or both, or arthralgia. Women employed in decorating the ware also suffer terribly from lead poisoning. The paint dries on their hands, on their clothes, or in their hair; and in the rougher department, being used in large quantities, the risk of inhalation and absorption in the skin or from swallowing with food is, in spite of every precaution on the part of the workpeople, very grave. The most wanton decorative method that probably exists is that known as "ground laying." The women dust the colour, which is mixed with lead, on the surface of the ware, so that they work in an atmosphere of lead particles. Sometimes when there is a rush of business in this class of ornamentation the women succumb to its effects as they would if they had drank strychnine. A poor creature who had been an inmate of the infirmary at Stoke workhouse for twelve years told me that she had been "done for" by this "ground laying" in just such a rush of orders, whilst the two women alongside of whom she was working both died.

It is a matter for hearty congratulation that co-operators, through the Co-operative Wholesale Society, have set their face against the use of raw lead as a glaze. In common with almost every other of the deadly features of industry, it is absolutely unnecessary. There are methods of preparing glaze without any lead at all, and the more human and scientific of the manufacturers in the Potteries are now "fritting" their lead—that is to say, it goes into the furnaces with the rest of the constituents of the glaze, where it is chemically transformed from the carbonate, which is soluble in the human system, to a silicate, which is practically insoluble. Let us mention that world-renowned houses have during the last few months used nothing but lead "frit," and they pronounce themselves more than satisfied with the result. Mr. Campbell, the great tile manufacturer, has for the past two or three years "fritted" all his lead, with the result that not a single case of lead poisoning has occurred amongst his workpeople. Mr. Rhodes, the buyer of the Co-operative Wholesale Society, has taken up this question warmly, and with the co-operation of the firms who do business with the Wholesale

and who have entered into his ideas with the utmost heartiness and cordiality, he can see his way to supply co-operators with goods which have not left the trail of deadly disease and horrible death The Home Secretary has also during the past year appointed a Departmental Committee to go into the whole question of the effect of the industry upon the health of the operatives. Before this appears in print their report will be published committee, besides three factory inspectors, have sat Dr. Arlidge and Dr. Spanton, who are both intimately acquainted with the health of the workpeople, and Mr. A. P. Laurie, a Fellow of King's College, Cambridge, who is an expert both on whitelead and the action of dusts. It seems not unreasonable to hope that whilst the special rules, which the Home Secretary will issue on the recommendation of this committee, may not at once put a stop to the use of raw lead, they will, at any rate, make it easier for the manufacturers who are willing to go out of the beaten and in this case inhuman track, and that regulations which will result in vastly improving the ventilation and a reduction of the excessively hot There is no sort of doubt that if this atmosphere will be enforced. is the case the potters' trade will be revolutionised, and instead of the occupation being nearly the unhealthiest in the country it will become one of the healthiest, for it is a light occupation and by no means an unpleasant one.

For sheer unadulterated brutality and recklessness in the use of lead I know nothing to beat the case of the manufacturers of enamelled sheet iron advertisements which have been coming much into fashion during the last year or two. This is practically a new trade, and it is carried on almost entirely in the black country, women's labour of the cheapest kind being employed upon it. careful inquiries I have made on the spot, there is no doubt whatever that the conditions of this industry are such that every woman employed upon it suffers in a greater or less degree from the horrors of lead poisoning. The poor girls work in a cloud of dry paint as they stand all day long dusting the colour from the lettering in the stencil plates. Means of ventilation for carrying it off there are In the same workshop with them the furnaces are roaring The employers like to where the enamelling process is carried on. get their labour from the little town of Sedgley, which stands several hundred feet above the sea, overlooking the smoke of Wolverhampton, Dudley, Bilston, and the other towns of the black country, for the air of Sedglev is so fine and bracing that the women are enabled to shake off the effects of the lead much faster than anywhere else in the district. Sedgley serves the economical purpose, therefore, of a convalescent home for the lead poisoned, whilst its distance from the scene of work tends to allay ugly questions being

asked by the ratepayers who have to pay for the medical attendance of these women. The poor-law doctor tells me that he never is free from cases, and that there is no woman employed at the work who does not show on her gums a little blue line, which signifies the presence of lead in the system. Only a week before my visit a girl had died in this convalescent home from lead convulsions after a few hours' illness, and there were others whom I saw who were suffering from more or less severe attacks of this form of advertising murder. Unless drastic measures are taken promptly every girl in the trade will be ruined for life, to say nothing of those who are being mercifully sent to the grave. Last year at the Wolverhampton Infirmary alone there were close upon one hundred cases of lead poisoning treated, a far larger number probably than at any other infirmary in the country, and yet there are considerably under a thousand women employed in the industry altogether. Such an industry as this is no doubt abnormal, but it shows the danger of allowing the manufacturers to take the law into their own hands. Here again the Home Secretary, on having the facts brought to his notice, has promptly intervened, and referred the case to the consideration of another departmental committee which is dealing with the whitelead trade.

In the manufacture of whitelead itself there are probably not more than 5,000 or 6,000 people employed in this country, but the comparatively small amount of labour does not make the work any easier or safer for those who are engaged in it. The work in the whitelead works is hard, and in many respects brutal and terribly dangerous. Women's labour is for the most part employed, and women are far more subject to the effects of lead than men. The whole question of its effects has been studied by medical experts, and Dr. Oliver, of Newcastle, says, unhesitatingly, that the ravages wrought by whitelead fall far more disastrously upon women than upon men. The chief centres of the trade are Newcastle-on-Tyne and the East of London. Charles Dickens, whom nothing seemed to escape, describes in the "Uncommercial Traveller" a visit paid to the whitelead works in Limehouse. His description is highly

picturesque :-

Hopping up ladders, and across planks, and on elevated perches. until I was uncertain whether to liken myself to a bird or a bricklayer, I became conscious of standing on nothing particular, looking down into one of a series of large cocklofts, with the outer day peeping in through the chinks in the tiled roof above. A number of women were ascending to and descending from this cockloft, each carrying on the upward journey a pot of prepared lead and acid for deposition under the smoking tan. When one layer of pots was completely filled, it was carefully covered in with planks, and these were carefully covered with tan again, and then another layer of pots was began above, sufficient means of ventilation being preserved through wooden tubes. Going down into the cockloft then filling, I found the heat of the tan to be surprisingly great, also the odour of the lead and

the acid to be not absolutely exquisite, though I believe not noxious at that stage. In other cocklofts, where the pots were being exhumed, the heat of the steaming tan was much greater, and the smell was penetrating and peculiar. There were cocklofts in all stages; full and empty, half filled and half emptied; strong, active women were clambering about them busily; and the whole thing had rather the air of the upper part of the house of some immensely rich old Turk, whose faithful seraglio were hiding his money because the sultan or the pasha was coming.

Dickens takes a cheerful view of this work, but the girls whom I saw doing it at Newcastle looked neither strong nor active, as they walked wearily backwards and forwards with loads of lead on their heads, or climbing high ladders, as he describes, balancing on their heads great planks, or loads of tan or of lead that was to be carbonated. Personally, I doubt if there is any other country in western Europe where women would be allowed to do such work. All this fetching and carrying and lifting could be done by machinery, but because women's labour happens to be cheaper, and they will submit to do the work of hoists and trucks, the thing goes on. But the more dangerous part of the work comes when the stack is uncovered after many weeks of chemical action, and the women mount once more to what is known as the "white bed," in contradistinction to the "blue bed." The lead gets in under their finger nails, and about their hands and arms, and over their clothes, as they pull it up from its bedding and remove it to the mill.

At last (continues Dickens) this vexed whitelead, having been buried and resuscitated, and heated and cooled and stirred, and separated and washed and ground, and rolled and pressed, is subjected to the action of intense fiery heat. A row of women stood, let us say, in a large stone bakehouse, passing in the baking dishes as they were given out by the cooks, from hand to hand, into the ovens. The oven, or stove, cold as yet, looked as high as an ordinary house, and was full of men and women on temporary footholds, briskly passing up and stowing away the dishes. The door of another oven, or stove, about to be cooled and emptied, was opened from above for the uncommercial countenance to peer down into. The uncommercial countenance withdrew itself with expedition and a sense of suffocation from the dull glowing heat and the overpowering smell. On the whole, perhaps, the going into these stoves to work when they are freshly opened may be the worst part of the occupation.

It is indeed a strange and uncanny sight to see these pale women, with red handkerchiefs bound tightly over their hair, enveloped in a sack-like overall, passing the pans of wet poison up and up into the great stove. But it is when the lead is dried and it has to be removed in a state of powder that the worst time comes. It is desperately hard work, for the stove is cleared at high pressure, and it has to be done with a muffler placed over the mouth, a thing which is no sort of use in keeping the lead out. Frequently the women work in their bare feet. By the time they have done both their outer and under clothes are covered with the lead dust, and the pores of their skin being opened by the desperate exertion, the lead has

every opportunity of finding its way into their system. In 1883 Sir William Harcourt, who was then at the Home Office, drew up certain regulations for the protection of the workers. These consisted of the provision of baths and nail brushes, and acid drinks for the purpose of turning the lead carbonate after it has been swallowed into a sulphate, and the like. It was a well-meant measure, but it would have been wiser and kinder to have recognised at once the necessity of enforcing some different method of manufacture, or the substitution of machinery for women's labour. The nail brush policy has done something, but it has not stopped lead poisoning, either in its more gradual or sudden forms; nor has it availed to check the deaths of children whose mothers work in the lead mills, the great majority of whom die within a few weeks or months of birth in convulsions.

During the last five years 145 cases have been treated at the Newcastle Infirmary, and a large number at the Newcastle Union, whilst the Gateshead Union had 13 cases on their hands in 1892. At Poplar 28 cases were treated during 1892, as compared with 30 ten years ago. Shoreditch and Holborn both show an improvement, the former having treated seven cases in 1892, and the latter 13 in 1891 and 1892. I have looked through the register at the London Hospital, where a number of cases have been treated, but as the occupation of the patient is not described, how many cases are whitelead workers

I cannot say.

But after all it is not a question of statistics. If there is a single case of unnecessary suffering, a single case of wrecked health or premature death, the blame lies on the community which allows human beings to be tortured and killed for the purpose of gain. Vivisection is at least practised for the sake of relieving the sufferings of humanity, but the unspeakable agonies, the symptoms of which are too horrible for description, are inflicted with no high end whatever in view, but the merely vulgar one of making money out of cheap labour. It reflects little credit on those who administer our laws that these wanton actions should have been permitted so long. As for the manufacturers, they are part of a system which works on the assumption that life is cheap, that the cheaper it can be got in the shape of labour the more there is to be made out of it, and so long as there is abundance of labour it will sell itself on their terms. What is there to trouble about? It is a free country, and labourers need not hire themselves unless they like. But it is precisely on behalf of these citizens, whose necessity forms the opportunity of the manufacturer, that the law must intervene unless every pretence of protecting human life is to be abandoned by the State. to be seen what recommendations the Departmental Committee of the Home Office will make on this question. They have spared no

pains, and their inquiries have carried them to every whitelead works in the country, and the presence of Dr. Oliver on the committee, who holds that women should be forbidden to work at this trade, entitles one to hope that the recommendations will not be merely of a perfunctory character. During the present year both France and Germany have issued drastic regulations on this matter, and in Germany the women are now forbidden to work in contact with the lead at all.

In the alkali works we come across an entirely different class of labour. With the exception of the men employed in the construction of public works, there is probably no finer set of workmen to be found in the country than those in the employment of the great corporation known as the United Alkali Company. This company has acquired nearly all the chemical works in the country, and it employes something like 20,000 men. The conditions under which these men work have been so fully brought before the public of late in the Press and before the Labour Commission, that it is unnecessary to deal with their case at length. A distinctive feature about the trade is that it wears out the workmen prematurely because of the intensity of the toil, the alternations of heat and chill, and most of all the exposure to noxious vapours. The traveller who passes through Widnes, even in an express train, draws up the window to keep out the choking sulphurous fumes. These centres of the chemical industry are in truth "hell-holes" for those who have to live and work in them. Taking one week with another, most of the men do their twelve hours a day in the works, and taking one man with another their life is over by the time they are The gases and vapours which do the mischief bring on bronchitis, and in the winter time the hospitals and workhouses are full of patients from the chemical works. The men who work on what is called "salt-cake" have their teeth rotted away in the course of time by the hydrochloric acid gas; others suffer from contact with vitriol; others again do their work in air which is filled with stinging caustic; the men in the "lime-house" constantly get burned by the action of the perspiration of the lime particles which settle on their bodies; and worst of all, bleaching powder men suffer daily semi-suffocation and bodily torture of a dreadful kind in the chlorine chambers which they enter with their mouths swathed with a huge protuberance of flannel. Nothing could be more barbarous and crude than the labour conditions in these works. The United Alkali Company have over and over again been taxed with it, but they reply that the men are well paid, as if, for sooth,

[•] I make this statement on the authority of the medical officer of health for St. Helens, who has kindly supplied me with the figures.

that had anything to do with it, and that they are a fine, strong body of men, as if men who were anything else could stand the terrific strain imposed upon them. But a visit to the infirmaries and the workhouses, where the wrecks of the chemical men are laid for the ratepayers and the charitably disposed to look after, disposes of the high professions of the great syndicate. There were ninetynine chemical workers in the Whiston workhouse when I visited it. The life had all been worked out of them, and there was darkness and vacancy in the disused human workings. Happily this is another of the trades which Mr. Asquith has scheduled as dangerous, and a committee of experts and factory inspectors engaged in

drawing up regulations for the protection of the workmen.

We have now passed rapidly in review certain typical occupations in which poisons and mineral dusts and vapours cut short the lives and injure the health of the workers. There remains the category in which havor is wrought by the inhalation of vegetable particles. In many of the departments of the textile industry the workpeople suffer, and suffer severely, from the particles of dust given off, and whilst they are not to be compared with mineral dust in their destructiveness, yet a great deal of phthisis and pulmonary disorders is the experience by the operatives in these trades. And here, as in many other industries, troubles do not come singly. The atmosphere of the mills and factories is close and hot, and frequently excessively humid. In the cotton-weaving sheds regulations have now been adopted at the instance of the operatives, and the Cotton Cloth Act limits the amount of heat and humidity. But a beginning has scarcely been made in introducing really healthy conditions into this great staple industry. In Belfast, which is the centre of the linen trade, and where at least 30,000 girls and women are engaged in linen weaving, spinning, and finishing, the rate of mortality from phthisis and respiratory diseases is quite appallingly high. The wet weaving and spinning which are carried on are most deadly in their effects, as the women and children work in an atmosphere of steam all day. In the preparing department, in which men are also engaged, the flax dust, which is highly irritant in its effects, is constantly present in large quantities. The people who are doomed to this labour are so poorly paid that they are unable to feed or clothe themselves properly. The women live for the most part on a diet of tea and bread, never really tasting meat or procuring really The strain and exhaustion and the insanitary nourishing food. conditions of their labour are such that the greater number of the mill girls die at the age of 18 than at any other age. The following table, which has been prepared from the records of the Belfast Union for the year 1891, shows more clearly than any words can do the death tax which the linen industry is paying:—

	Causes of Death.					
AGE.	Phthisis.		Respiratory Diseases.		OTHER CAUSES.	
AGE.	Male.	Female.	Male.	Female.	Male.	Female
10						
11		i				1
12		1				
13						
14		5		1		1
15	1	7			2	ī
16	3	14	2	1	1	5
17	1	13			1	6
18	3	17		3		4
19		17			1	6
20	2	11		1		7
21	$\bar{2}$	14		ī	i	7 5
22		9		ī		8
23	i	5	i .	1		2
24	$\overset{1}{2}$	12	i	i	• •	4
25	$\frac{2}{2}$	6	i	i	••	1
26		7	-	$\frac{1}{2}$	1	2 3 1 2
27	i	9		-	1	9
28	-	5		2	••	1
29	•••	10		2	••	0
30	1	5		4		6
	1	6		2	• •	9
$\begin{array}{c} 31 \dots \\ 32 \dots \end{array}$	••	4		1	3	9
33	•••	3		i	1	9
34	• •	4		3		2 2
35	••	6		J	• •	3 3 2 3 2 1 3
36	••	-	i	i	• •	1 1
37	3	5	1	2	i	1 2
38	3	2	2	1	1	2
39	i	1	2	1	$\frac{\cdot \cdot}{2}$	
40	1	4	1	1		5
41	$\frac{1}{2}$		1 1	i	• • •	1
42	• • •	2		4	•••	1
43	••	1	i	2		i
44	••	1	1 1	1	ĭ	3
45	\dot{i}_2	1	1	2	1	4
46	2	i	2	2	1	1
47	i	i	2		i	9
48	î	-	4		î	ī
49	1		1	2 5		2 1 1
50	1		1 1	5	1	3
51	1		1	1		
$52 \dots$	••		1	-		1
53	••	•••	2	i	 1	1
54	••			1		1
55	••	i		1	••	1
56	••	1	i	2	i	1 2
57		•••	1	2 1		$\frac{2}{2}$
58	••	i	3	2	ï	-
59	••	•		ī	1	
60 and	••	••		1	1	
upwards			11	11	18	20
Total	32	210	42	71	42	132
Total	32	210	42	71	42	132

In the space that remains at my disposal, it is not possible to enter as fully as I had hoped to do into the question of remedies. The passing by the House of Commons in November last of a clause in the new Employers' Liability Bill making employers liable for injury to the health or life of their workpeople in cases where reasonable precautions have been neglected is a remedial step of the first importance. But I believe it will be found that nearly, if not quite all, of the evils to life and health caused by our present industrial conditions are capable of remedy. wonders that have been worked by the Public Health Acts in many of our towns are a proof of what great things may be done when once the community wakes up to the vital importance of obtaining public health. We should be somewhat over sanguine, however, in expecting any strenuous attempt on the part of the Local Government Board to set anything like a high standard of health, to exact a low weekly death rate, or to know the reason why, until the people of Great Britain have pulled themselves together on this question and done something to master their existing powers, and the strength as well as the limitations of local government; above all, until they have formed some idea in their own minds of what should constitute a healthy and wholesome life. So long as they allow manufacturers to pollute the air with smoke and to fill the rivers with filth, to blacken the green country, and to make cleanliness in the home almost impossible because of the drift of grit and smuts—so long as we tolerate workshops and factories whose air is not fit for human beings to breathe and whose sanitary arrangements are simply pestilential, workmen and women and their children will continue to be treated by the powers that be as though their lungs were of brass and their nerves of steel. Considering how fast the great portions of our race, pent up in some of our high-pressure, unhealthy towns, are hurrying down hill, deteriorating generation after generation in stamina, fibre, and muscle—how the country districts are being drained of their people, until the reserve force, which rural England has so long provided, is dwindling out of sight, it is high time that the people woke up to the necessity of grappling with the conditions which shape, not only the lives, but even the very characters of our race. Factory Acts and Public Health Acts are, after all, only instruments of greater or lesser efficiency according to the will and skill to use them. If property and trade are the first considerations, then we may be very sure that the administration will be slack and slovenly and the death tax exacted, by these lords paramount, very high. But as soon as human welfare becomes the first thing needful, it is wonderful how difficulties and impossibilities vanish away. The first-rate minds which have hitherto been in the pay of trade; or driven

into exile from the world of affairs—the men of science. philosophers, biologists, sanitarians, the poets, and artists, and musicians, and all those whose work is something of a revolt against conditions that defile or that are repugnant to nature—all these men will help to make the marching music of progress. The successful city will no longer be a place stockaded round with big villas, each with its greenhouses, and shrubs, and gate posts, on which the name of Chatsworth, or Haddon, or some other modest rendering of the city man's ducal ideal, is inscribed, and an inner place of plausible but delusive high streets which only shut out the dull, low levels of poverty, where ill-health, mental and physical, is written in the gloom and cheerlessness that prevail. The new city will be prouder of the height of its children, and their measurement round the chest, than of the height of its chimneys and the bulk of its manufactures; and if it has less in the way of vulgar and ugly pretension to display, there will be better order, arrangement, and symmetry, as well as more colour and free movement of life in the new city. It is even conceivable that people may grow lighthearted again—a thing which is impossible to the cave-dwellers of modern life. We may hear workmen coming home from their work-and the strictly workaday part of the town, where the necessarily noisy, jarring, and dirty work has to be carried on, will be a quarter by itself when public health is president of the new republic-marching along as they do in Italy, singing airs which are worth listening to, such as the old English airs were before the days when nothing but the naked screech of the musichall could make itself heard above the roar of the streets.

Co-operators know well enough, without being told of it, that they stand committed to this work of reconstructing society on healthy and cheerful lines. The reform of trade and industry on which they are engaged must carry with it the reform of those bad conditions of life which we have been considering. Our social organism is lopsided because the strong prey upon the weak, the idle upon the toiling—because exchange is robbery as conducted at present, and distribution in its most profitable form the art of interception. As all that is altered, and people have time to think and energy to pull themselves up to a higher level of life, the ugly markings with which trade has tattooed everything will speedily disappear. To take a case in point. The Co-operative Wholesale Society undertakes to manufacture boots and shoes on a democratic plan for the co-operators of England and Wales, its object being to provide good and reliable, yet economical, workmanship. If the Society had simply been in the search of profits it would scarcely have built such a palace of health and comfort as the Wheatsheaf Works at Leicester, nor would it have installed the electric light and

set up a great cyclone ventilator which sends a stream of fresh air through the works all day and whirls away every particle of dust produced in the course of manufacture. Co-operators argue, however, that you must look for the qualities of your work in the qualities of the surroundings of your workers, and that to expect good, reliable workmanship under bad and unwholesome conditions would be a contradiction in terms. Take the Shieldhall Works, again, where everything has been planned for the comfort of the workers, and you find just the same considerations prevailing. Or go to the co-operative bakeries which exist in so many towns, and compare them with the private bakeries. Doubtless, in many respects, the co-operative workshops conducted by the stores do not come up to the establishments of private traders, but in the matter of bakeries, which are after all one of the most vitally important branches of manufacture, co-operators may claim to be leading the way. And there is no reason to doubt that the policy which commends itself to them in their own institutions will be advocated as the co-operators gain increased representation on local public bodies. Much is to be hoped from their influence; from their training as organised consumers, when the great health crusade is undertaken in earnest, and the right of the workman to healthy surroundings in the workshop and the home takes its place as a vital part of the claim for the living wage.

FURNITURE WOODS, WITH SUGGESTIONS FOR THE INTRODUCTION OF NEW KINDS.

BY JOHN R. JACKSON, A.L.S., ETC., CURATOR OF MUSEUMS, ROYAL GARDENS, KEW.

[ILLUSTRATED BY JOHN ALLEN.]

THERE is probably no one subject connected with the products of the vegetable kingdom that has such numerous and extended ramifications as that which brings under review the forest produce of the world, as distinct from that of agriculture and cultivation generally. Twenty or thirty years ago to speak of forest produce meant alone the timber, yield of the trees which composed those forests. It is true that caoutchouc, or india-rubber and guttapercha, together with cinchona and other drugs of vegetable origin, and tanning and dyeing materials, amongst other articles of commerce, were equally well known then as now, but it has been reserved to quite recent years for anything like an adequate consideration to be given to the less known products of the forests of India and our far and wide colonial possessions, under what is now collectively and generally known as "minor products."

This increasing development of the natural resources of the world arises from several causes, not the least of which is the ease and rapidity of intercommunication with all parts of the universe, not only by personal transit, but also by flashing thoughts that are continuously encompassing the circumference of the globe. As a natural consequence of this it has become possible to transmit from one part of the world to another, and often a very distant one, valuable economic plants to be established and cultivated not only to ensure the perpetuation of any given product, but to increase its yield to

meet the constant demand of the ever-growing population.

From energy and enterprise thus displayed we are enabled to obtain many important economic products from countries far and wide of each other, and equally distant from the original home of the plant producing such product. If such forethought for the welfare of future generations has been considered necessary in plants of easy and rapid culture, how much more important is the question of perpetuating the timber supplies of the world, for the production of timber from new plantings is not a matter that can be accomplished in the course even of a few years. It is, however, satisfactory to

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know in this connection that within the last ten or fifteen years a considerable amount of attention has been given to re-afforestation in almost every part of the globe where forest productions form an important item of revenue. The most notable example of the organisation of a most thorough system of tree protection and planting, is that which has been so successfully carried on in India, under a complete staff of able officers—trained foresters, and many of them capable scientific men and excellent botanists—which constitutes a distinct department of the Indian Civil Service, under the title of the Forest Conservancy. With the accumulated knowledge of such a body of men who are intimately acquainted with the botanical affinities of the trees under their charge, whereby they are able to judge of the nature of the woods themselves, and their suitability to compete with allied woods for certain purposes, as well as with their habits and rates of growth, and many other important details, the Indian forests are now carefully protected and their utility ensured for the benefit of future ages, besides which their resources are continually being developed.

The importance of the proper conservation of forests in all parts of the world and the preservation of forest trees cannot be over estimated, for it is a matter that does not affect us alone as a nation, though even from that somewhat restricted point of view it is great, for the natural resources of our Indian and colonial possessions play a very large part in our commercial prosperity, but it is a much farther-reaching affair and affects the prosperity of the whole world. Taking only a few of the best known Indian timber trees as illustration of this we need only refer to teak, saul, satin wood, ebony, and sandal wood, the supplies of which in a few years would have become considerably diminished, if not exhausted, had not steps been taken by a system of careful cutting and replanting to perpetuate their existence, and to continue if not to increase the

sources of supply.

From another point of view, also, the Indian forest system is one that commends itself as an example to other countries, for the attention of the officers has not only been directed to the preservation of their own indigenous trees, but the introduction of well-known timber trees from other countries has formed part of their scheme, and this has been considerably advanced by the co-operation of the several botanic gardens in different parts of India. One of the trees, not a native of the East, that has received perhaps the greatest amount of attention, is the mahogany, which has its home in the forests of the far-distant countries of Cuba, Honduras, Mexico, and Central America. It must be confessed, however, that the mahogany tree has met with only a varied success in India, and its prospects for extended culture in this part of our Empire is not so promising as

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we might wish, but this is no reason why further experiments should not be prosecuted to their utmost limits with hundreds of other trees of acknowledged value. This is no doubt a work that is slowly progressing in all or nearly all the British possessions, and the establishment of botanical stations, notably in the West Indies and West Africa, will in course of time develop this, as well as other

branches of economic botany.

Next in importance to India as a timber-producing country belonging to the British Crown ranks Australia, with its neighbours, Tasmania and New Zealand, the timber resources of which are not only extensive with regard to geographical area, but are also rich in individual species known to furnish some of the most durable timbers for building purposes, as well as the most valuable and beautiful woods for cabinet work, some of which are already known in English commerce, while many others are known only in the colony producing them, and have yet to be developed in British trade. Fortunately for Australasia the forest products have had a considerable amount of attention paid to them by competent authorities, and though they are not perhaps worked with the systematic methods under which the Indian forests are placed, an authentic flora has been produced, and this, with the botanical gardens at Sydney, Melbourne, Adelaide, and Brisbane, has done much to promote a knowledge of the great timber resources of these colonies. It will be seen that our remarks so far have been directed chiefly to the products of our own possessions, but though we are naturally inclined to look at home first for the purpose of increasing the trade with our colonies, we must not forget that English commerce is much farther reaching than this, and that the products that are constantly being brought into our ports are gathered from all parts of the globe. If we take, for instance, the natural resources of the large Continent of South America we shall find that some of the most valuable and beautiful woods known to the English cabinetmaker are brought from the dense forests of Brazil, and it is a fact worth noting that, though many of these woods have been known to English commerce for the past 100 years or more, botanists are still in ignorance as to the nature of the trees which produce them. No better illustration of this fact can be mentioned than that of rosewood, a wood always more or less in demand for work boxes. dressing cases, desks, and similar uses. The deep, rich brown colour of this wood with its bold dark markings are characters not possessed by other woods, and though it is in frequent demand and a regular article of import the tree or trees which furnish it are still unknown, and apparently likely to remain so without some active steps, which have been so long wanting, are taken to send a trained botanical collector into the forests with the

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wood cutters. The ignorance which prevails generally with regard to the ornamental woods and timbers of the great South American Continent is curious and very marked. The most we can say of rosewood is that it is probably the produce of one or more species of Dalbergia belonging to the natural order Leguminosæ, and we can say but little more with regard to many other Brazilian trees whose woods are articles of trade. Paraguay, again, is known to abound in valuable timber trees, for the most part extremely hard and very durable—timbers that have recommended themselves for use in many important engineering works in the Republic, but of the nature and character of the trees producing them absolutely nothing We find the same want of knowledge again in the timber produce of our own colony of British Guiana, which we know to be especially rich in valuable cabinet woods. Again, in the English colony of British Honduras, from whence indeed much of that well-known wood, mahogany, comes, the timber resources are

very great but the knowledge of them is extremely small.

It may be asked what advantage to commerce would a knowledge of the scientific or botanical origin of the individual denizens of any of these forests be? The answer to this, we think, is clear. First, if we know the botanical affinities of any well-known timber tree we are able to judge at once of its density, durability, strength, or otherwise; we are also able to form an opinion as to the suitability of such and such plants for introduction and acclimatisation into other countries, perhaps far removed by geographical range from that in which the plant is indigenous. Besides this, forests of young trees, which might perchance not be known in their youthful condition by the wood clearer, would perhaps be sacrificed, which in a few years, if left standing, would yield valuable timber. All these possibilities, or rather probabilities, of mischief are averted by the establishment of a systematic scheme of forest conservancy or preservation such as has been adopted in India, and the question is one of such vital importance, not only to the countries most directly concerned, but also to the commerce of our own land, that, with the view of placing the matter in the strongest light before our readers, we take the opportunity of embodying in this paper some remarks on the distribution of Indian forests made by that experienced forest officer, Sir Dietrich Brandis, so long ago as 1872. His remarks and recommendations have, so far as the Indian forests are concerned, been adopted, with the result that the supply of Indian timbers is ensured to future generations. Sir Dietrich, of course, reviews the subject of forest conservancy from all the most important points, and says, whatever views may be held regarding the slow, gradual, and limited effect of forest growth upon the climate, there is no doubt that in a hilly country, forests enable us in many cases better



Plate 1.

No. 1.—MICHELIA CHAMPACA.

No. 2.—Shorea Robusta.

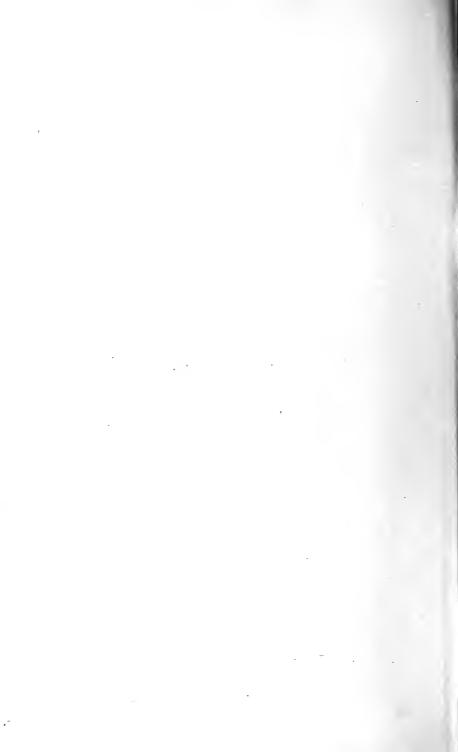
No. 3.—CHICKRASSIA TABULARIS.





No. 4.—CEDRELA TOONA. No. 5.—Schleichera Trijuga.

No. 6.—Gluta travancorica.





No. 7.—Odina Wodier.

No. 8.—Ougeinia dalbergioides.

No. 9.—Dalbergia Sissoo.



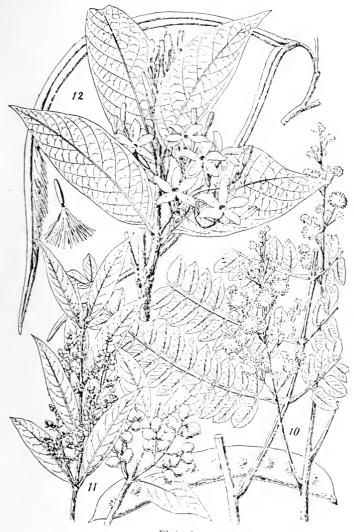


Plate 4.

No. 10.—ALBIZZIA LEBBEK.

No 11.—OLEA CUSPIDATA.

No. 12.—Holarrhena antidysenterica.





Plate 5.

No. 13.- FLINDERSIA AUSTRALIS.

No. 14.—Castanospermum australe.

No. 15.—OLEARIA ARGOPHYLLA.





Plate 6.

No. 16.—Grevillea Robusta.

No. 17.-FAGUS CUNNINGHAMI.

No. 18.—Pt.eroxylon utile.





No. 19.—Olea Laurifolia.

No. 20.—CALOPHYLLUM CALABA.

No. 21.--HYMENÆA COURBARIL.



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to husband the existing water supply for irrigation. Whether the drainage from the hills is collected in tanks and artificial lakes, as is the case in Rajpootana and Mysore, or whether it is employed to feed canals to carry water, fertility, and wealth into distant districts. the object is the same, to utilise to the utmost the water supply available during the year. Experience in India and elsewhere has proved that where hills are bare the rain rushes down in torrents. carrying away loose soil, sand, and stones, silting up rivers and canals, breaching and overflowing dams and embankments; but that where the hills are covered with meadows, fields, or forest, the superficial drainage is gradual, the dry weather discharge of rivers regular, the springs better supplied—in short, all conditions united, to ensure the more regular and useful filling of tanks and canals: and in many cases the attainment of these objects is in itself of sufficient importance to justify measures for the preservation and improvement of natural woodlands, and for guarding against the denudation of hilly tracts. Nor is it at all impossible that in some cases the preservation and extension of arborescent vegetation may have a beneficial effect upon the sanitary condition of a district. The unhealthiness of the Mauritius has generally been ascribed to the gradual denudation of the island, and to remedy this legislative measures were proposed for a system of reforesting the waste lands. Beyond all doubt, however, forest conservancy in all parts of the world has become necessary in order to meet the growing demands for timber, wood, and other forest produce. Under the influence of peace and prosperity advances are made in the habits of the peoples of most countries. The peasantry of entire districts in India, for instance, who were at one time content to live in miserable huts. now build good substantial houses and use better furniture, hence there is an increased demand for bamboos, wood, and timber. Again, in countries not fully opened up, the demand for timbers for railway construction is always more or less on the increase, for besides the rougher timbers required for sleepers and the construction of the permanent way, a large quantity is also required for buildings and fittings, and the choicer and figured varieties for carriages and the linings of them.

We have thought it best thus far to treat of forest produce generally, for to establish a system of forest conservancy every kind of product which the forests are capable of yielding must be equally considered. Timber trees for structural and building purposes must receive as much attention as those trees which are capable of supplying us with the choicest cabinet woods. For the purpose, then, of making the forests of the world more productive, not only in timbers and woods of acknowledged reputation, but also by the interchange of timber and wood-

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producing plants of various climes, we most strongly advocate in all wooded countries a most thorough system of preservation and careful treatment of the existing indigenous arboreal vegetation, and of the introduction of such plants, as in the opinion of a practical forester and botanist, would be likely to succeed and worthy of introduction, either from a reputation already established, or from their botanical affinities might prove new sources of supply to the great wood markets of the world, and thus be the means of furnishing novelties for our cabinet-makers and sources of wealth to the exporting A point to be borne in mind by those who may be entrusted with the charge of forests is that fashion rules the demand for furniture woods equally with that of articles of clothing. At one time light coloured woods only are in request, at another dark Many years ago rosewood and the darkest woods are demanded. and boldest figured walnut was greatly in demand, then mahogany came forward as a powerful rival, and was used alike for drawing, dining, and bed room furniture. Mahogany held its position as the furniture wood par excellence for a long time, when American walnut became introduced, and very soon established itself, not only for the modern Queen Anne and so-called Chippendale furniture, but also for cornices, mouldings, and similar work. the American walnut we have a wood which, from its brown tint and even grain, without much figure, is so distinct from the deep red of the mahogany, that when once a change was introduced the fashion took like wildfire. No polish was needed for a wood of this character, for when simply rubbed down with oil the rich brown colour was its chief recommendation. Enormous quantities of this wood were for a time shipped from America, and it was stated, as an illustration of the keen demand for it and the good prices realised, that one landed proprietor in America, who had in previous years cut down a large number of black walnut trees and had them sawn up for fencing for his ground, found it worth his while to pull the fencing down and export it, replacing it by a less costly wood. The reign of dark woods had their day, to be succeeded, especially for bedroom furniture, by American birch, a wood that commends itself for its warm, pinkish yellow tint and even grain, though it has little or no figure in the bulk of the wood.

Notwithstanding that the English cabinet-maker has at his command some very choice woods wherewith to develop his artistic taste, it cannot be said that he has a very great variety to select from, to enable him to produce such distinct changes in his work to avoid the monotony of repetition. This limited character of the material the workman is called upon to utilise, is at first not apparent, but a glance through the collections of woods that were brought together at the several International Exhibitions, and

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notably at the Colonial and Indian Exhibition in 1886, would prove the truth that not a tithe of the world's productions of ornamental woods have yet become utilised as they ought to be; indeed, we may go further and say that as yet they are scarcely known out of their own countries. And this brings to our mind the question whether the gigantic and varied collections of all kinds of produce that are brought together at these periodical exhibitions are calculated to promote their extended application or to develop their usefulness. The matter is one upon which varied opinions have been expressed, and though it does not come within our scope for argument, we may perhaps express our own opinion that the result in any one direction has not been such as was desired or More satisfactory work was accomplished in this connection at the Colonial and Indian Exhibition than at any of its predecessors, for many of the woods were tested practically with regard to their strength and durability, and reports published of these experiments. A permanent collection of woods, such as that shown in the Timber Museum of the Royal Gardens, Kew, is likely to do much more good in a quiet way than any exhibition carried on under great excitement and as a show, rather than as a place for study and thought. It cannot be too widely known that the series of woods at Kew have been very carefully selected, mostly from the several exhibitions, and that they can be seen and examined daily, and every facility is offered for such examination to anyone specially interested in them. The woods are arranged geographically, that is according to the countries producing them, so that the resources of any individual colony can be seen at a glance. Though we have reason to believe that this collection has been of much use to a number of persons practically engaged in the wood industry, its existence is perhaps not sufficiently known to enable it to be of that service which a national collection of this character ought to be. It is with the view of bringing a few of the most marked and interesting of these woods to notice, in the hope that they may find a market here, that we refer to this collection, and draw special attention to them in the following pages.

In a collection of this nature, where the woods are brought side by side and the specimens are, for the most part, of unusual dimensions for museum specimens—indeed many of them are of the full diameter of the trees as they grow—the large size of many of our Indian and colonial trees, when compared with those of our own country, are the more striking, and, again, the character and markings of the woods are more readily seen. There are several elements which go to make up beauty in cabinet woods; firstly, colour, and the deepest colours are for the most part found only in the heart wood, the sap wood being usually colourless and without

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figure; to this last element of beauty the medullary rays, or thin plates, which radiate from the centre outwards, play a very considerable part, the silver grain of the oak and plane, which is so characteristic of these woods, being entirely due to this large development of medullary plates. In the highly-coloured woods where the medullary rays are prominent the value of the wood is considerably enhanced from an ornamental point of view, varying very often not only in size but in boldness of character, colour, tone, and lustre, so that when seen in different lights they present different colours. A botanical knowledge here helps a connoisseur in woods vastly, for it is only in some natural orders of plants that we may expect to find this large development of medullary rays. The oak and plane, just referred to, are familiar examples amongst British-grown woods, while amongst foreign woods we have many examples in the natural order Proteaceæ, which includes the silver tree of the Cape (Leucadendron argenteum) and several species of Protea, and amongst Australian woods the silky oaks (Stenocarpus salignus and Grevillea robusta), the Australian honeysuckle (Banksia integrifolia) and several other species of Banksia. Again, in the natural order Casuarineæ a similiar character of figuring prevails, but accompanied by a deeper and richer reddish tint; the woods are also considerably harder, much heavier, and more difficult to work than those of the Proteaceæ. The several species of Casuarina which have their headquarters in Australia, are mostly known in that colony by the appellation of oaks, such as she oak, forest oak, swamp oak, and sometimes beef wood. It is, then, to trees belonging to these families, namely, Corylaceæ (oak), Platanaceæ (plane), Proteaceæ (silky oak), and Casuarineæ (she oak) that we must look for woods having this distinctive character of figure. Another source of beauty or variety in wood marking is due to the disposition of the annual rings, whether broad or narrow, regular or irregular, the greater the irregularity the more variety there is shown when the wood is cut through. An alternation of colour very often accompanies these concentric rings, producing different effects, not only of light and shade, but absolute contrasts. We find illustrations of this in the Brazilian tulip wood (Physocalymma florida), in vew (Taxus baccata), as well as in some other woods, the scientific names of which are still unknown, such as king wood, partridge wood, &c. These characters, founded on the disposition of the annual layers, are not confined to any particular families of plants, such as we have seen is the case with the arrangement of the medullary rays. Another character which is more or less general to all natural orders is the symmetrical distribution of colour, which often passes by insensible degrees into stripes or veins, of which zebra wood (Omphalobium Lambertii) and rosewood are examples.

Knots or burrs, which often grow on the trunks of trees, furnish some of the most beautifully marked furniture woods. These are due to abnormal growths, or arrested branches, and are common to all natural orders alike; the most familiar examples of this figuring are to be found in bird's-eye maple, and wavy or curled maple (Acer saccharinum), amboyna wood, furnished probably by a species of Pterocarpus, and that most beautiful of all woods the thuya or citron wood of Algeria (Callitris quadrivalvis). Woods cut from burrs or knots bear no similarity whatever in appearance to planks cut from the main trunk, which, for the most part, is not only plain and straight grained, but often of an entirely different colour from that of the burrs.

In directing special attention to the following woods as likely to prove valuable additions to the comparatively limited number at present known to English cabinet-makers, we have thought it best to arrange them under the heads of the countries producing them as being probably the most useful for reference by those who may be specially interested in the produce of any one part of the world, while for those who may be acquainted with the timber and hard wood produce of the world generally, it will be easy to select any given wood with which they may not be acquainted, and if there are points in the character or description of such wood, which would in their opinion recommend it, it would then be quite within the range of practicability to obtain samples of such wood for trials here, with the view of testing its capabilities for any particular branch of cabinet work, or the possibilities of its being taken up by the British public. It must be understood that the woods enumerated in the succeeding pages are either quite new to British commerce, or, having been occasionally introduced, have not been fairly tested by the voice of public opinion, and are, therefore, practically unknown.

INDIAN WOODS.

1. Michelia Champaca.—This is a tall evergreen tree, often producing, at the age of 100 or 120 years, a trunk 8ft. in girth. It is known as Champa by the Hindoos. The wood is comparatively soft, and seasons, cuts, and polishes well. The sap wood is white and the heart wood of a light olive brown colour, the annual rings being distinctly marked by a white line. It is very durable, and is used in India for furniture, house building, and especially for planking, also for door panels and carriage work. The tree is found wild in Nepal, Bengal, Assam, Burma, and in the forests of the Western Ghats, and is cultivated throughout India. An allied species (Michelia excelsa) known as the Bara champ, likewise a lofty but deciduous tree of Eastern Himalaya and the Khasia Hills,

produces a wood somewhat similar in appearance, equally durable, and much used for building purposes, especially for door and window frames, as well as for furniture. It is indeed the principal building and furniture wood of the Darjiling Hills. (See No. 1, Plate 1.)

2. Calophyllum spectabile.—This is a tall evergreen tree of Tenasserim and the Andaman Islands, where it is known as the Panta-ka. The wood is of a light red colour, somewhat cross grained with a shining appearance, and moderately hard. In the Andamans it is used for masts, spars, planking, and for building

purposes generally.

3. Calophyllum inophyllum.—This fine tree is known in India as the Alexandrian Laurel, or Púna. It is an evergreen, and is very common in the forests of South India, Burma, and the Andaman Islands, and is very frequently cultivated in other parts of India on account of its ornamental character. The tree is not confined to India in its geographical distribution, but is common in tropical Asia, Polynesia, Mauritius, and Madagascar, where it is known as the Tatamaka. The wood is of a reddish brown colour, moderately hard, and close grained, and often shows a good deal of well-marked and choice figuring. In India it is used for masts and spars, for which purposes it is noted for its strength. Railway sleepers are also made from it, and for machinery work it is extensively applied. Though the wood is somewhat heavy it might be found a useful wood for certain kinds of furniture.

4. Calophyllum tomentosum.—This is another species of the same genus as the last two, and is known in India by Europeans as the Poon Spar tree, and by the natives as Poon. It furnishes the Poon spars of commerce, which often fetch high prices; besides this it is used in India for building, especially in the construction of bridges. The wood is very similar in structure and appearance to that of C. spectabile (No. 2). The tree is a large evergreen, found in the forests of the Western coast from the Concan southwards, and

extending into Ceylon.

5. Mesna ferrea.—This is commonly known as the Nagesar, or Indian Iron wood. It is a large evergreen tree, very widely spread in India, both in a wild state and under cultivation; it is also found in Ceylon, Burma, and the Andamans. The wood is very hard, as its common name would indicate, of a beautiful rich, dark red colour. It has a high reputation in India for durability, and it is used for building purposes, for bridges, gun stocks, and tool handles. Its fine colour would recommend it as a furniture wood, though its weight and hardness would tell against it. It might, however, be used for veneers. The tree is very frequently planted in India for the sake of its handsome fragrant flowers, which the natives use for sachets.

6. Schima Wallichii.—The Chilauni of the Indians, a large evergreen tree of moderately fast growth, native of Northern and Eastern Bengal and Chittagong, up to an elevation of 5,000 feet. The wood, which is of a red colour, is fairly hard and very durable, though it is apt to shrink in seasoning if care is not taken with it. Its principal use in Northern Bengal and Assam, is for building purposes, and it is stated that many of the Darjiling tea factories have been built of it. Large quantities of well-grown, straight, timbers are available in India, and as the tree produces abundance of seeds every year, which, falling from the fruit, readily germinate and come up in profusion, where there is sufficient light and a freshly stirred soil, so that should there spring up a demand for the wood, there is no fear of the supply failing.

7. Dipterocarpus turbinatus.—A very tall evergreen tree, known as the Gurjun oil tree, growing in Eastern Bengal, Chittagong, Burma, and the Andaman Islands. The wood is moderately hard and even grained, the heart wood of a reddish grey colour. It is used in Burma both for house and canoe building. It is a wood that might be found useful for many purposes in English trade. It yields a quantity of oil, resin, or wood oil, used in painting

houses and ships.

8. Dipterocarpus tuberculatus.—A very large deciduous tree, known both to Europeans and to natives as the Eng tree, and forming large forests in Burma called Eng forests. It is found also in Chittagong. Like the last named, the wood is hard and close grained, and of a reddish colour, and is used very extensively in

Burma for house building, canoes, and similar purposes.

9. Dipterocarpus alatus.—This tree grows to a very large size, and is found in Chittagong, Burma, and the Andaman Islands. It is generally known as the Kanyin tree, but sometimes the name of Gurjun is applied to it, like that of D. turbinatus. The sap wood is white, and the heart wood of a reddish grey colour, fairly hard and well grained. It is chiefly used in the countries where it grows for house building and canoes; but for these purposes it is said not to be durable, but for furniture it might prove a useful wood.

10. Shorea robusta.—This is the Sal or Saul tree, one of the best known of Indian timber trees. It grows to a very large size, and is seldom or never quite leafless. It has a wide distribution in India, extending through tropical Himalaya, and along its base from Assam to the Sutlej, in the Eastern districts of Central India, and Western Bengal Hills. The trunk has but a small development of sap wood, which is of a whitish colour, and not durable, while the heart wood is brown, finely streaked with dark lines, very hard, but somewhat coarse grained, with a peculiar fibrous and cross-grained structure. In consequence of the great value of this wood in India

a considerable amount of attention has been paid to its careful preservation, the rate of growth, weight, strength, and other details. It seems, however, to be a difficult wood to season, warping and splitting in the process of drying without very great care is exercised. It is apt to dry rapidly on the surface, remaining for a long time wet beneath, and the perfect evaporation continuing at a very slow rate. With proper precautions, however, the wood can be thoroughly seasoned, and when dried very slowly it is unrivalled for strength, durability, and elasticity, all of which properties it retains without the slightest change for any length of time. In Northern India Sál wood is perhaps the most extensively used wood of any produced in the Indian forests, being in regular request for piles, beams, planking, bridge work, door and window posts, gun

carriages, and also for canoes. (See No. 2, Plate 1.)

The Sál tree possesses the power of natural reproduction in a remarkable degree. The seeds ripen at the commencement of the rains, and sometimes even germinate before leaving the tree; being naturally scattered abroad, they fall to the ground, when a crop of seedlings soon spring up, to be destroyed too often by jungle fires, but so great is the vitality of the plant that the roots of the stems destroyed soon put out fresh shoots, and, this happening in successive years, a large hard burr or ball of wood is formed. With protection from fire the Sál forests would become very widely spread, and the supply perpetuated. The seedlings of a few years' growth soon kill-the grass, and smaller growing plants, and form forests, often of some extent, and consisting entirely of Sál trees. Besides the wood the Sál is valuable for its other products, exuding, on being tapped, large quantities of a light-coloured resin, which has an aromatic This resin is often found in very large masses, buried in the ground, at the bases of the trees, from whence it is dug up, collected, and sold for caulking boats, as well as for burning as a kind of incense. The resin, which has remained buried in the ground for a very long period, and which has become semifossilised, occurs sometimes in English commerce, and is used for varnish making. It will be gathered from these remarks that the Sál tree is one of the most useful of Indian trees, and though the wood is extensively used in the country where it is produced, its uses might be still further extended and even exported for English trade.

11. Hopea odorata.—This is a large evergreen tree, known as the Thingan in Burma, in the forests of which, and the Andaman Islands, it is found scattered. The wood is of a yellow or yellowish brown colour, hard, close and even grained. It is described as the chief timber tree of Tenasserim, and is used for house building, canoes, cart wheels, &c. It is a remarkably durable wood. Boats made from it are said to last in perfect condition for quite twenty years.

12. Thespesia populnea.—This is sometimes known by Europeans as the Indian tulip tree, and is an evergreen of moderate size. It is a native of the coast forests of India, Burma, and the Andaman Islands, and is distributed in many parts of tropical Asia, the Pacific Islands, and Africa. The sap wood is soft, but the heart wood is hard, of a pale reddish brown colour. It is durable and not difficult to work, and is valued in all the countries where it grows, being adapted to many useful purposes. In India it is used for furniture, carts, carriages, boats, and for gun stocks.

13. Pentace burmanica.—This is a very large and lofty tree, native of Martaban and Pegu. The wood is of a yellowish red colour, shining, somewhat soft, and even grained, and takes a good polish. It is known in Burma as the Thitka tree, where it is very largely used for boat building, as well as for boxes. Large quantities of this wood are now said to be annually exported from Burma, and some finds its way to the European markets, though a few years

ago it was almost or quite unknown.

14. Berrya Ammonilla.—A large tree closely allied botanically to the last named, and found in Southern India, Burma, and Ceylon. It is known to Europeans as Trincomali wood, and to the Burmese as Petwoon. It has a very hard, close grained, dark red heart wood, noted for its durability, flexibility, and toughness. Its chief use in India is for carts, agricultural implements, and spear handles. Its colour and strength should recommend it for many uses in this country.

15. Melia Azadirachta.—This is the well-known Neem, or Margosa tree of India, growing to a large size, and found commonly planted and self-sown over the greater part of India and Burma, as well as in other tropical countries. It has a grey coloured sap wood and a very hard, red coloured, heart wood, much used in India for carts and ship building, as well as for agricultural implements, and in Southern India especially for furniture. It is one of the trees held sacred by the Hindoos, who make their idols from it. The tree also furnishes many other useful products, such as gum, which is used in medicine as a stimulant, and a yellow coloured bitter oil is obtained from the fruit used as an antiseptic and anthelmintic, as well as for illuminating purposes.

16. Melia Azedarach.—This is a closely allied tree to the last, and is known in India by the names of Persian lilac, bastard cedar, or bead tree. It is commonly cultivated throughout India, and is found also in Persia and China. The sap wood is of a yellowish white colour, and the heart wood red and somewhat soft. It is very frequently found with handsome markings, and the wood takes a good polish. In India it is much used for furniture. The name bead tree is given to it because the nuts are used for making

necklaces and rosaries.

17. Dysoxylum procerum.—An evergreen tree found in Assam, the Khasia Hills, and Cachar to Pegu and Tenasserim. The wood has a very handsome appearance, is of a bright red colour, polishes well, and might be found very useful, were it better known. D. Hamiltonii, an allied species, has also a close grained, hard, red coloured wood,

which is used in Assam for boats and planks.

18. Sandoricum indicum.—The Thitto of Burma, where it forms a fine evergreen tree. It has been introduced into Southern India, and is found also in the Malay Islands. It has a grey sap wood, and a beautifully red mottled heart wood, close grained, moderately hard, and takes a fine polish. In Burma it is used for carts and boat building, and is quite worth a trial as a furniture wood in this country.

19. Amoora Rohituka, commonly known in India as the Rohituka. A large evergreen tree with a reddish coloured, close, and even grained, hard wood, which, though of acknowledged merit, is but little used, though in Chittagong canoes are said to be sometimes made of it. The tree is widely distributed over India, and is found

also in Ceylon, the Malay Archipelago, and the Philippines.

20. Carapa moluccensis.—This is a moderate-sized evergreen tree of the coasts of Bengal, Malabar, Burma, and Ceylon. The wood is hard, of a whitish colour, turning red on exposure. In Burma its chief use is for house posts, tool handles, and spokes of wheels. The tree is a close botanical ally to the crab wood of British Guiana and the West Indies (Carapa guyanensis), and yields, like that tree, from its seeds, a quantity of oil, which the people use either for

burning or for the hair.

21. Soymida febrifuga.—The Indian red wood, or Rohan, of the Hindoos. It is a large deciduous tree of Central India and the Deccan, and occurs also in Ceylon. It has a small whitish sap wood and an intensely hard, close grained heart wood, of a reddish black colour. The wood is used in India for various works of construction, and for oil mills, well work, ploughshares, &c., on account of its extreme durability. The colour and appearance of the wood has much to recommend it for furniture, but its hardness and weight would probably be against it. The bark has a bitter taste, and is well known in India as a remedy in diarrhœa and dysentery.

22. Chickrassia tabularis.—A fine tree known as the Chittagong wood, or by its Bengal name, Chikrassi. The tree occurs through Eastern Bengal, Assam, Chittagong, Burma, and Southern India, as well as in Ceylon and Malacca. This is a hard, compact, and very beautiful wood, varying in colour from yellowish brown to reddish brown, with a beautiful wavy, satiny lustre, somewhat after the fashion of satin wood, but with bolder and deeper toned

markings; these wavy lines, which catch the light in various directions, give an exceptional character to this wood, which seasons and works well. It is much used in India for furniture and for carving, and we feel sure that if it were once introduced for cabinet work in our own country there would be a great demand for it. A fine specimen of this wood may be seen in the Timber Museum at Kew. In addition to the value of the wood the bark is powerfully astringent, and the flowers furnish a red or yellow dye. (See No. 3,

Plate 1.)

23. Cedrela Toona.—A large tree known in India as the Toon tree. It is abundant in Southern India, Bengal, and Burma, and extends to Java and Australia. It is a tree of rapid growth, and produces a soft and easily-cut wood of the mahogany type, to which indeed it is closely botanically allied. It is perhaps rather more distinctly red in colour than mahogany, and much more open grained, consequently it is a lighter wood. It seasons well, and is not liable to split or warp, and has a fragrance similar to that of cedar. In India the wood has a very wide reputation, and is highly valued for furniture of all kinds, besides which it is also used for house carpentry, door panels, and carving. At one time the trunks of the very large trees were used for dug-out canoes in Bengal and Assam, where, as well as in Burma, trees have been commonly found up to a height of 80 or 100 feet, with a girth of 20 feet. Notwithstanding that the wood is said to be exported to the English market from Burma under the name of Moulmein cedar, it does not seem to be so well known amongst cabinet makers as it deserves. Some planks of this wood cut from trees grown in New South Wales and Queensland, and described as the produce of Cedrela australis, are of very fine figure and remarkable beauty, and are well shown in the Kew collection. Considering that the plants are easily propagated from seed its cultivation in India and Australia should be as widely extended as the use of its wood should be in this country. (See No. 4, Plate 2.)

24. Elæodendron glaucum, known in India as the Mirandu. tree of India, Ceylon, and the Malay Archipelago. It has a moderately hard, even, and close grained wood, of a light brown colour, frequently with a reddish tinge, often very beautifully curled; it works well, takes a good polish, and is valued in India for cabinet

work, as well as for making picture frames.

25. Schleichera trijuga.—This is a large deciduous tree, known as the Kosum, found in India, Burma, Ceylon, and Java. It furnishes a hard wood, of a reddish brown colour, extremely strong, and very durable, and might be found useful for the heavier kinds of furniture. The seeds furnish a large quantity of oil used for burning in Malabar. (See No. 5, Plate 2.)

26. Gluta travancorica.—A very large evergreen tree of Tinnevelly and Travancore. The wood is very hard and close grained, of an extremely rich dark red colour, almost approaching crimson when polished; it is, moreover, often beautifully mottled with light and dark streaks. It works well, and, though but little used in India, its qualities and general appearance should recommend it to notice as a first-rate cabinet wood. A very fine slab is in the Kew

collection. (See No. 6, Plate 2.)

27. Odina Wodier.—A moderate-sized or large tree, found throughout the hotter parts of India, as well as in the Andaman Islands and Ceylon. To the natives it is known as Kiamil. The heart wood is of a light red colour when freshly cut, changing to a reddish brown by age and exposure. It is fairly hard, close grained, seasons well, and is not liable to warp, though the wood is said not to be very durable. It is used in India for a variety of purposes, such as spear shafts, wheel spokes, oil presses, and rice pounders. From its colour and general appearance the wood might be found useful for ordinary furniture. (See No. 7, Plate 3.)

28. Millettia pendula. - A deciduous tree of Burma, where it is known as the Thinwin. Though the heart wood is of small diameter, it is beautifully streaked, purplish black, and very hard. It is but very little used in India, but is quite worthy of attention as a

cabinet wood, or for inlaving.

29. Ougeinia dalbergioides.—This is the Sandan of the Hindoos, and is found in Northern India and the Concan, forming a moderate-sized tree. It has a light brown, or sometimes a reddish brown, mottled heart wood, hard and close grained, very tough and durable, and susceptible of a high polish. In India it is used for furniture, building purposes, carriage poles, wheels, and agricultural

implements. (See No. 8, Plate 3.)

30. Dalbergia Sissoo.—This is the Sissoo, one of the best known Indian timbers. It is a large deciduous tree, common through India, and found also in Afghanistan and Beluchistan. It is planted extensively as an avenue tree all over India. The heart wood is of a brown colour, with dark longitudinal veins, very hard, close and even grained, and seasons well, not liable to warp or split, and is very durable. For furniture, cart, carriage, and boat building it has the reputation of being unsurpassed by any other wood. It is not unknown in this country, but it deserves to be much better known and its use extended. Dalbergia latifolia, the black wood or rose wood of Southern India, is a closely allied species to the Sissoo, and is equally well known and reputed as a valuable furniture wood. It is stated that wood of this tree sent to the London market in 1878 realised £13. 10s. per ton. Treated with oil, as it often is in India, the wood becomes almost black. The most

elaborately carved Indian furniture is mostly made of this wood. Dalbergia cultrata, of Burma, and other species of Indian Dalbergia are all worth careful consideration and trial. (See No. 9, Plate 3.)

31. Pterocarpus indicus.—The red wood of the Andamans and Padouk of Burma. It is a lofty tree of the Andamans and Burma. and is found also in the Malay Islands, Philippines, and China. The beautiful dark red colour of this wood, together with the fact of its being a good wood both to season and work, and its capability of taking a splendid polish, are all strong recommendations for its extended use by English cabinet-makers. A plank sent to the Paris Exhibition of 1878 measured nearly 4 feet across. Some furniture made by a well-known English firm in the same year attracted a good deal of attention, the makers considering it suitable for all kinds of furniture. The red sanders, or red sandal wood of Southern India, the produce of an allied species (Pterocarpus santalinus), is, when freshly cut, of a blood-red colour, blackening, however, by age; but as this wood is valued as a dye, and as a medicine on account of its astringent properties, and, moreover, as it is a small tree, it would scarcely be obtainable in sufficient quantity or at a price suitable for cabinet purposes. The same may be said of Pterocarpus marsupium, which is a large tree of Central and Southern India, but valued for the red astringent colouring matter, known as kino, which is obtained by tapping the tree as it stands.

32. Cassia siamea.—This tree is the Beati of the Tamils, and is perhaps better known under the scientific name of Cassia florida. It is of moderate size, and grows in Southern India, Ceylon, Malay Peninsula, and Siam. The wood is of a very distinct character, dark brown, or nearly black, and exhibiting a very beautiful mottling. It is very hard and durable. In Burma it is used for mallets and walking sticks, and is probably worth some attention

being given to it as a cabinet wood.

33. Adenanthera pavonina, commonly known as the Raktachandan, and sometimes as red sandal wood. It grows in India, Ceylon, Malay Islands, Philippines, and China. It has a hard, close grained, red coloured heart wood, used in Southern India for cabinet making and house building. A red dye is obtained from it. It is a

wood that might be used for ordinary work.

34. Acacia arabica.—The Babool or Indian Gum Arabic tree. It is either a moderate-sized or large tree, according to locality, and is found cultivated or self-sown, throughout the greater part of India, as well as in Ceylon, Arabia, Egypt, tropical Africa, and Natal. The heart wood, when freshly cut, is of a pinkish white colour, turning to a reddish brown on exposure, and often mottled with dark streaks. It is hard and very durable, and is largely used in India, for all kinds of work, where strength and durability are

required. It is, perhaps, rather too heavy for ordinary furniture, but might prove useful for the framework of dining and billiard tables. With a tree so widely distributed as this is in different parts of the tropics, there should be no difficulty in obtaining it should a demand arise. Useful woods might also be found amongst other species of Indian acacias, such, for instance, as A. leucophlea,

A. ferruginea, and others.

35. Albizzia Lebbek, commonly known by Europeans in India as the Siris tree. It grows to a large size in India, Ceylon, Burma, Malay Islands, China, North Australia, and tropical Africa. (See No. 10, Plate 4.) The wood of this and several other species of Albizzia, natives of India, are hard, dark brown, with darker coloured longitudinal streaks. It is largely used in India for a variety of purposes, amongst others for furniture, boats, oil mills, wheel work, &c. The woods of all the species of Albizzia are quite worth the attention of the cabinetmaker, all being similar to the above, of a rich brown colour, more or less streaked, taking a good polish and having a beautiful appearance when so finished. Amongst the most prominent species may be mentioned, A. odoratissima, A. procera, A. lucida, A. Julibrissin, A. stipulata, and A. amara.

36. Prunus Puddum.—The Paddam tree of the Hindoos, ranging from a tree of moderate size to one of large growth, and found in India and Burma. The heart wood is fairly hard, and is beautifully mottled, shining, and wavy, of a reddish colour. It has a fine appearance when polished, and though used occasionally in India for furniture, deserves to be known amongst English cabinet

woods.

37. Carallia integerrima.—This small evergreen tree is known as Kierpa in Bengal. It is found in India, Ceylon, Malay Archipelago, China, and Australia. The heart wood is very durable, works well, and takes an excellent polish. It is of a bright reddish tint with fine cross markings, and is used both in India and Burma for

furniture. Its distinct character should recommend it.

38. Careya arborea.—A large deciduous tree known as the Kumbi. It grows in many parts of India and Burma, and produces a moderately hard and very durable wood, which seasons well, works well, and polishes well. In some specimens, more particularly in the younger trees, the wood is of a dull red colour, but in the older trunks it becomes of a very rich dark claret, or crimson, and sometimes finely mottled. Some of the uses to which it is put in India and Burma are for furniture and various kinds of cabinet work, house posts, and gun stocks, but the wood has not received the attention it merits.

39. Stephegyne parvifolia.—A large tree found throughout India and Burma, and also in Ceylon. It is known as the Kaddam, and

produces a lightish coloured wood, with a pinkish brown tint, moderately hard, easily worked, and durable, and takes a good polish. This wood has less colour than any that we have yet considered, and might be found useful for the lighter kinds of furniture. In India it is not only used for furniture and agricultural implements, but it is one of the woods that is largely used for turning and carving, and for platters, cups, spoons, combs, &c.

40. Diospyros Kurzii.—An evergreen tree of the Andaman Islands and Nicobars. It is a close botanical ally to the ebony and calamander woods of commerce, and the wood is somewhat similar in appearance to the latter, but is composed of black and greyish streaks rather than blotches, which is the case with calamander. It is indeed sufficiently distinct from the better known wood to recommend it for bold inlaying, or even for panels, and though it is but little used in its native country, it is certainly a wood that ought to be known to English commerce. The tree is said to be pretty common in the Andaman forests. Some choice examples of the wood are shown in the Kew Museums. The woods of some allied species of Indian Diospyros, besides that which yields the ebony, furnish wood with an ebony-like centre, such, for instance, as D. melanoxylon, D. montana, D. cordifolia, and others, all of which are worth a trial.

41. Olea cuspidata.—This is sometimes known as the Indian olive, but by the people of Scind, where the wood is much valued for making combs and for carving, it is known as Khan. It is a tree about 30 feet high, common in India and Beluchistan. The wood is smooth and even grained, extremely hard, and takes a splendid polish. In colour it ranges from a light to an olive brown, or, in some specimens, nearly black. The beautiful marking of this wood is similar to that of the European olive, but the whole tone of it is darker, and its character is therefore sufficiently distinct to recommend it for

adaptation in England. (See No. 11, Plate 4.)

42. Holarrhena antidysenterica.—A small deciduous tree known as the Karra, and found throughout the forests of India, Travancore, and Malacca. The wood is white, soft, and even grained, and is much used by the natives for carving, and in Assam for furniture. (See No. 12, Plate 4.) Amongst other white woods of a similar character that are mostly used in India for carving platters, bowls, basins, and such like articles, are the Keor (Wrightia tomentosa) and the Dudhi (W. tinctoria). These three are the chief woods used in India for these purposes. The light colour and comparative ease with which all three of these woods are cut, would probably adapt them for inlaying.

43. Morus indica.—This is one of the Indian species of mulberry, and is known by the Hindoos as Tutri. It is a moderate-sized deciduous tree of India, Burma, China, and Japan. The wood is

fairly hard, of a yellowish brown colour, with dark streaks, and bears some resemblance to that of the common white mulberry. This wood, together with that of *Morus serrata*, a tree of some 60 to 70 feet high, having, when polished, a beautiful golden lustre, would, no doubt, if it were better known, become a useful cabinet wood; and the same may be said of several species of *Artocarpus*, the woods of all of which are yellow, or yellowish brown, sometimes approaching to an orange colour, and have a rich appearance when polished. Of these trees we may mention the Bread fruit (*Artocarpus integrifolia*), the Lakuch (1. lakoocha), the Chaplash (A. chaplasha), the Ayni (A. hirsuta), &c.

We have devoted considerable space to this selection of about fifty Indian trees, because they fairly represent the types of suitable furniture woods to be found in our great Eastern forests, and because they have been carefully taken from amongst others, widely scattered over the whole range of the natural orders, which constitute the great vegetable kingdom. Upon actual trial many of the woods themselves may not prove so useful as we have anticipated, but they indicate spots on the great map of nature in the neighbourhood of

which others may be found.

Next in importance to India amongst British possessions as a timber-producing country, both in extent and variety, we may place Australia, and it is to a few of the choicest woods of that country that we will next draw special attention. Foremost amongst Australian woods stand, of course, the numerous species of Eucalyptus, but though valuable as they are for a variety of uses their weight and density cause them to be quite unsuited for furniture, so we have to exclude them from any consideration in the present paper.

AUSTRALIAN WOODS.

1. Zanthoxylum brachyacanthum.—This is a tree some 40 or 50 feet high, of Northern New South Wales and Queensland, where it is known as satin wood. It is close grained, easily worked, of a bright yellow colour, with a soft satiny lustre. It is used for cabinet work, and is said to be superior to the satin wood of the English trade.

2. Dysoxylum Fraseranum.—The two most common names of this wood are rose wood and pencil cedar. The tree grows to a height of from 50 to 70 feet in Northern New South Wales and Queensland, and the wood is of a reddish colour, of good figure, works well, and takes a good polish. It is somewhat similar both in appearance and grain to mahogany, for which, indeed, it has been suggested as a substitute, if it could be brought into the market and sold at a reasonable price. In Australia it is a favourite furniture, cabinet, and turning wood.

3. Flindersia australis.—This is known as the Australian ash, or beech, and is a tree growing to a height of 80 to 100 feet, found in Northern New South Wales and Queensland. The wood is hard, close grained, and of great strength and durability, has an orange brown tint, and takes an excellent polish. (See No. 13, Plate 5.) An allied species (F. Oxleyana) known as the light yellow wood, a tree of similar height to the last, and found in the same districts, produces a wood of a fine even grain, often of a pretty yellow colour, which should recommend it, as there are so few woods having this tint naturally. In Australia it is used both for cabinet work and for boat building.

4. Alphitonia excelsa.—A tree 45 to 50 feet high, known as the mountain ash, red ash, or leather jacket, and found in New South Wales, Queensland, and Northern Australia. It has a hard, close grained, and durable wood of a bright red colour, darkening, however, with age. In some samples the wood passes from a dark

brown to pink, and in others the colours are blended.

5. Harpullia pendula.—This is the tulip wood of New South Wales, and grows to a height of from 50 to 60 feet in Northern New South Wales and Queensland. The wood is close grained, firm, and hard, and is most beautifully marked with irregular, longitudinal streaks of black and yellow. It is one of the most striking woods of Australia, and is consequently much esteemed by the colonial

cabinet-makers, and should be known in this country.

6. Rhus rhodanthema.—Known as the dark yellow wood, or yellow cedar. It grows in Northern New South Wales and Queensland, attaining a height of from 60 to 70 feet. The wood is soft, fine grained, easily worked, sound and durable, has a brownish or yellowish bronze colour, with a fine silky lustre, somewhat darkening by age, but losing none of its beauty. It is classified as one of the handsomest of Australian timbers, and is much used in the colony for cabinet work.

7. Castanospermum australe.—This is a fine tree of Northern New South Wales and Queensland, growing to a height of 80 to 90 feet, and known as the bean tree, or Moreton Bay chestnut, from the fact that the seeds are large, about the size of a chestnut, and are eaten in a similar way. The wood is soft, fine grained, and marked with beautiful dark, cloudy lines, which strongly recommends it as a cabinet wood. This wood was one of those submitted to a series of trials at the time of the Colonial and Indian Exhibition, and the report upon it was as follows:—

A beautifully figured, brown wood. The sample sent being very wet was tried under somewhat unfavourable circumstances. A baluster was turned from it, and some boards and panels planed, the work from both lathe and planing machine being excellent. The wood should prove valuable for cabinet makers, but should be thoroughly seasoned before being used, as it shrinks very much in drying. (See No. 14, Plate 5.)

- 8. Acacia acuminata.—A tree some 30 or 40 feet high, native of Western Australia. It is sometimes known as Myall, though it is not the true Myall as known in England, for the manufacture of pipes. The dark, rich reddish brown colour of the wood, and the scent, which is compared to that of fresh raspberries, together with its close and compact grain, are recommendations for its application in cabinet work. Mr. Ransome, in his report in 1886, remarked that this wood ought to find a ready sale in England for ornamental work. A large number of species of Acacia grow in Australia, indeed, it may be said that it is the headquarters of these plants. The true Myall is obtained from two species, A. pendula and A. homalophylla, whilst amongst others to which attention should be given may be mentioned A. Cunninghami, the bastard Myall; A. glaucescens, the Brigalow; and A. melanoxylon, the black wood. This last is a very beautiful and valuable wood, presenting a most varied character in different trees, and being suitable for almost every purpose of cabinet and carpentry work.
- 9. Olearia argophylla.—The musk wood of Tasmania, Victoria, and New South Wales, where it grows to a height of from 20 to 30 feet. We quote the following description of this beautiful wood from a colonial authority:—

This timber has a pleasant fragrance and a beautifully mottled appearance, well adapted for turning, cabinet work, and perfumery purposes. It works well, and may be had in any quantity, and in slabs of from 18 to 36 inches diameter. The wood of the gnarled butt and roots of the tree are beautifully mottled, and consequently much prized. (See No. 15, Plate 5.)

- 10. Bedfordia salicina.—A tree about 30 feet high, native of Tasmania, Victoria, and New South Wales. It is the dog wood of Tasmania, and the cotton wood of New South Wales. The wood is hard, of a pale, greyish brown colour, and very prettily mottled. Its appearance is sufficient to recommend it for furniture, but it is said to be very difficult to season, and, moreover, it emits a fœtid smell when freshly cut.
- 11. Grevillea robusta.—This is one of the trees known in the colony by the name of silky oak. It is found both in New South Wales and Queensland, and grows to a height of from 70 to 80 feet. The wood is moderately hard, and works well. It is of a lightish grey colour, with silvery cross wavy markings, due to the large development of the medullary rays. When polished the satiny sheen is well brought out. The absence of any dark colour in the wood causes it to possess a delicate lustre which would befit it for choice boudoir or bedroom furniture. It is stated that in consequence of the wood being much used in Australia for the staves of tallow

casks it is becoming scarce, but the tree has been proved to grow well in Ceylon, where it has been introduced, so that it is capable of extended cultivation, besides which it resists drought in a remark-

able degree. (See No. 16, Plate 6.)

12. Stenocarpus salignus.—This tree is a close botanical ally to the last named, and, like it, is known in Australia by the common name of silky oak, in addition to which it is sometimes called silvery oak and beef wood. It ranges from 30 to 50 feet high, and is found in New South Wales and in Queensland. The marking of the wood is very like that of Grevillea robusta, but the colour being of a deep red, it is altogether of a more striking appearance. It is a favourite wood in Australia for furniture, picture frames, and walking sticks. In the Jurors' Reports of the International Exhibition of 1862 it is referred to as "altogether one of the most beautiful woods in the Exhibition, and of the highest merit."

13. Banksia integrifolia.—One of the trees known as the Australian honeysuckle, growing in Victoria, New South Wales, and Queensland, and attaining a height of from 20 to 30 feet. The wood is mottled in the same way as the two preceding, belonging as it does to the same natural order. It is moderately hard, of a pinkish colour, and very suitable for furniture or fancy work. It is said to be perishable when exposed to atmospheric influences, but otherwise durable. Banksia serrata, also known as honeysuckle, has a similar wood, but more of a purplish mahogany colour, and quite worth a

careful trial as a cabinet wood.

14. Xylomelum pyriforme, known as the native or wooden pear, in allusion to the hard woody pear-shaped fruit, is a tree of New South Wales, growing from 20 to 40 feet high, producing a dark coloured and beautifully marked wood of a similar character to the last three, but deeper in colour. Like those just mentioned, it is much valued

for ornamental cabinet work in Australia.

15. Casuarina stricta.—A tree some 20 to 30 feet high, found in all the Australian colonies except Western Australia and Queensland. It is known as shingle oak or coast she oak, and produces a very tough and hard wood, of a reddish colour and a fine mottled surface, caused by the broad medullary plates forming dark bands. When polished these have a very fine effect, and the wood has an extremely handsome appearance. Its weight and hardness, however, may tell against its general use as a furniture wood, though it is well worth a careful trial, and at most might be used for veneers. Several other species of Casuarina are found in Australia, and many of them might prove useful, such as C. suberosa, C. torulosa, and others which are generally known as swamp oaks or shingle oaks.

16. Fagus Cunninghami.—This tree, though it is a close ally to the common English beech, is known in Tasmania as myrtle. It is

a magnificent tree, sometimes attaining 200 feet in height, but averaging about 100 feet. It grows both in Tasmania and Victoria. "The wood is prized for sash and door work, and, indeed, for all kinds of light joinery. It is a hard, richly coloured furniture wood, and the warty protuberances on the trunk of the tree afford a most beautiful figure, as do slabs, which may be procured 6 feet long in almost any quantity. It is used for the cogs of wheels by mill-wrights." Some very beautiful examples of this wood are shown in the Kew Museum, and it is surprising that it has not already become

an article of commerce with us. (See No. 17, Plate 6.)

17. Dacrydium Franklinii.—This is another of Tasmania's most beautiful woods. It is the produce of a tree belonging to the conifere or pine family, and is found only in Tasmania, where it grows usually to a height of from 60 to 80 feet, but sometimes attains to 100 feet, and is known as Huon pine. The wood is light but tough, and extremely durable, in consequence of which it is much in demand for boat building and house fittings. As a proof of the durability of the timber, it is stated that fallen trees have been known to lie in the damp forests for many years without rotting. The colour of the wood is a pale yellow, and in the knots and burrs the character of the figuring is so peculiar and distinct from any other wood, that it is difficult to describe. The small eyes or knots, partake somewhat of the character of bird's-eye maple, but they are darker and more defined, surrounded by a wavy satiny lustre, which, under the effects of polish, produce in each one a different degree of light and shade, changing upon every position of reflected light. The wood, indeed, may be said to be without a rival. Many years ago it attracted considerable attention at a meeting of the Society of Arts, the result of which was that many wood grainers attempted to imitate it, but the changeful effect of light was beyond their powers, and the interest dropped after the very fine examples in the Kew Museum had been visited and examined by many practical men. We believe that in consequence of the great demand for the wood in the colony the tree is becoming scarce, and the wood is therefore fetching high prices. It should be carefully planted and extended, not only into the other Australian colonies, but also in other countries where it is likely to flourish.

Space will not allow us to point out any further individual examples of the forest treasures of Australia. We have not included in our review any examples from New Zealand, though there are many to which we might allude, such, for instance, as mottled and wavy Kauri (Agathis or Dammara australis), a variety of wood that we sometimes do see in England, but which is not so well known as it ought to be. The Totara, again (Podocarpus totara),

is a wood well worth attention. In a "Report on the Durability of New Zealand Timbers," in 1875, Mr. Kirk says, writing of the Rewa Rewa (Knightia excelsa):—

That although nearly valueless at present, it might be advantageously exported if sawn into planks from 3 to 6 inches in thickness, and dried in airy sheds. From its liability to become "foxy" it would be useless to ship it unseasoned, as it would become worthless during the voyage. I am convinced that if once fairly established in the London market the demand would speedily exceed the supply, so that good prices would be realised. At present thousands of trees are destroyed yearly with the progress of clearing, so that its utilisation in any way would be of great advantage, as it is a timber, even when dry, of difficult combustion. It might be advantageously used for certain special purposes irrespective of its beauty.

These remarks were written eighteen years ago, and what was said

then practically applies to the present time.

Turning next to our South African possessions, we find both at the Cape and in Natal a flora rich in timber-yielding plants, and though the trees as a rule do not grow to the majestic proportions of those of Australia, or even India, and consequently, would not supply timber of equal diameter or bulk, we nevertheless find a number of valuable trees, producing hard, even grained, and durable woods, and not a few of which possess sufficient colour or figure to recommend them for cabinet or furniture making. It must be confessed that there is not the variety in the South African forests that we find in those of the colonies we have already considered, from which to make such a varied choice. The bulk of the timbers are perhaps more suited for building than for cabinet purposes. Again, in two colonies so comparatively close as the Cape and Natal, we might expect to find, as is the case, many of the same kinds of trees growing in both. A few references to suitable Cape woods will suffice to show that the forests of these colonies are quite of sufficient interest to warrant an examination and trial of their resources, with the view of future development.

CAPE WOODS.

1. Ekebergia capensis.—This is known as the Essenboom, or Cape ash. It is a tree 20 to 30 feet high, producing a strong, close grained, and durable wood, of a light yellow colour. In the colony it is used for furniture and wagon work, for which it is much valued.

2. Elæodendron croceum.—The saffron wood of the colonists. It is a tree averaging from 20 to 40 feet or even 60 feet high. The wood is of a yellowish pinkish colour, very fine grained and delicately striped, hard, close, and tough; used for cabinet work, beams, planks, wagons, and agricultural implements. The bark is valued for tanning and dyeing.

3. Hartogia capensis.—A small tree, seldom exceeding 16 feet high, with a hard, fine grained, close, tough wood. It takes an excellent polish, and has an appearance equal to the finest mahogany, but generally of a lighter colour. It is well adapted for all kinds of superior cabinet work, as well as for turning and building purposes.

It is known at the Cape as ladle wood.

4. Pteroxylon utile.—This is the sneeze wood of South Africa, and is ranked amongst the most important and valuable woods of the country. In point of durability it is said to rank with greenheart and jarrah. The following extract from a paper on "Cape Woods and Forests," by A. W. Heywood, of the Cape Forest Department, published in connection with the Colonial and Indian Exhibition of 1886, is given as a proof of the durability of this wood. The writer says:—

The heart wood of sneeze wood is regarded as imperishable for fencing posts. It is not attacked by the white ant, and posts put in by the earliest colonists are sound to the present day. Unfortunately, the supply of wood is now very limited. Its extirpation was imminent when the forests were taken over for management, and felling is now prohibited in Government reserves. Natural re-growth is everywhere abundant, and with careful conservation much may be done towards the restoration of sneeze wood to the economic uses it is so eminently suited to fulfil.

The wood is often very beautifully marked with cross undulating wavings, giving it a very handsome appearance. The tree grows to a height of from 20 to 30 feet. It derives its name of sneeze wood from the fact of its producing violent sneezing when sawn or worked. (See No. 18, Plate 6.)

5. Rhus Thunbergii.—This is a small tree, from 15 to 20 feet high, known as the rock ash. It has a yellowish, hard, close grained wood, with a satiny wavy lustre, much valued for fancy cabinet

work, fancy furniture, and musical instruments.

6. Cunonia capensis, known as red cedar. A large tree, ranging from 20 to 60 feet. The wood is of a rich reddish brown colour, hard and tough, taking an excellent polish, and forming a very handsome furniture wood.

7. Platylophus trifoliatus, the white alder of the colonists, is a tree 30 to 40 feet high, producing a light coloured hard and tough wood, the roots and knots being very finely marked. The wood is

in request for ordinary furniture and for making boxes.

8. Olinia cymosa.—This is a plant of varying height, averaging about 16 feet, but sometimes growing up to a height of 30 feet. The wood is of a light greyish colour, very compact, and heavy, hard, and tough. It is much used in the colony for general fancy work, musical instruments, as well as for wagon and cart work.

9. Olea laurifolia.—This is a straight growing tree, from 40 to 70 feet high, known as the black iron wood. The sap wood is white, and the heart wood almost black, streaked with darker wavy markings similar to common olive, but much blacker. It is very hard and somewhat heavy, but, nevertheless, is an excellent

furniture wood. (See No. 19, Plate 7.)

10. Ocotea or Oreodaphne bullata, a tree growing 50 to 60 feet high, and having a diameter of from 4 to 5 feet. It is known as stink wood or laurel wood, the first name being given to it from the fact of its emitting a most disagreeable odour when freshly cut. Stink wood has little or no sap wood. The wood is very highly prized, being little inferior if not equal to teak in strength and durability. It is used in the colony for nearly every kind of cabinet work, wagon and house building. It takes an excellent polish, and the dark rich colour has much to recommend it in comparison to walnut.

11. Proteu grandifloru.—This is only a shrub of some 6 or 8 feet high, but the wood is of such a beautiful deep red colour, marked with a cross, or reticulated grain of a light silvery grey, which imparts to it a lace-like appearance, that it would be very valuable for small articles of furniture, and for inlaying. The tree is known

as the wagon tree.

12. Podocarpus latifolius.—This is a very tall tree, perhaps the tallest in the colony, growing up to 70 feet or more. It is known as the upright yellow wood to distinguish it from an allied species designated Outeniqua yellow wood, which, however, runs the other very close with regard to height. The woods are very difficult to distinguish one from the other, both are of a pale yellow colour, close and even grained, and both are highly valued for a variety of uses. Besides the quality of the wood itself, the great length and diameter of the planks that can be cut from the enormous trunks, are points which recommend it. The cleanness with which the wood cuts, and the high polish it takes, are also recommendations for its use as a light coloured furniture wood. The furniture made from it and exhibited in the Cape Court of the Colonial and Indian Exhibition in 1886 attracted a good deal of attention.

These few examples of Cape woods may be taken as typical of what the forests are capable of producing, and, under the system of forest preservation inaugurated in 1880, it is satisfactory to be able to look forward to the yield of the forests being increased rather than diminished. The gloomy outlook of the Cape forests previous to the period above referred to is thus described in Mr.

Heywood's paper already mentioned. He says:—

The management and working of the Cape forests was of a very unsystematic and thriftless character. Fellings were not confined to limited areas or sections, wood cutters were allowed to pick and choose their trees indiscriminately

throughout the forests, and to pay only for the wood actually removed. The consequence of such a method was that only the choicest trees were felled, and their rejected portions left to cumber the ground. It has been estimated that by working on this system nearly thirty cubic feet of wood were wasted for every one utilised and paid for. Natural reproduction was thus severely handicapped; many forests disappeared altogether, and those which now remain, and are at all accessible, have been impoverished to the last degree. In 1880 the question of forest management was brought before Parliament. It was pointed out that the officers in charge had received no special training for the work, which had in consequence suffered severely, and the salary of a trained forest officer was voted by the Legislature. The Crown agents in London were consulted, and, with the assistance of Colonel Pearson, then at Nancy, the services of Count de Vasselot de Régné, of the French Forest Department, were secured. This officer arrived in Cape Town early in 1881, and, as superintendent of woods and forests, undertook the organisation of the present forest department. In 1883, by the courtesy of the Indian Government, the services of Mr. Hutchins, deputy conservator of forests, were made temporarily available to the colony.

Such is the brief history of the establishment of the forest department at the Cape, an establishment of comparatively recent date, but one that has already done good work, and the results of which will be felt quite as much, or more, in the future in providing material for the use of generations to come, not only amongst the colonists themselves, but also amongst those of their own countrymen, who may wish to extend their commercial relations in the commodities

they have to offer.

These notes would be very imperfect without a sketch of the nature of the wood produce of our West Indian possessions. We have only incidentally alluded to those of British Guiana and British Honduras, but in like manner, as we were compelled to omit Ceylon when treating of Indian woods, in consequence of its nearness to the great Continent of India and the similarity, to a certain extent, of its timber produce, notwithstanding that Ceylon is extremely rich in choice cabinet woods, we must omit anything more than a mere glance of one island, as an indication of what may be found in most of the others, and we take Trinidad as the example, because more has been done in this island in the actual and careful development of its timber resources than in any other. At the several International Exhibitions the collections of woods from Trinidad have always stood out prominently, not only in the variety and number of specimens shown, but also in the size of the slabs and the care exercised in their selection. This was particularly the case in the collection brought together at the Colonial and Indian Exhibition in 1886, which collection is now contained in the Kew Museum. The following is a selection made from these woods:-

TRINIDAD WOODS.

· 1. Calophyllum Calaba.—This is called the Galba or Palo Maria tree. It grows to a large size, and the wood, which is of a pale reddish tint, beautifully marked by light wavy lines, is considered one of the best woods of the country. It is strong and durable in

all situations. (See No. 20, Plate 7.)

2. Byrsonima spicata.—The Surette, or shoemakers' bark tree, in consequence of the bark being an article of export to England for tanning purposes. The tree grows to a height of from 30 to 40 feet, and is found also in St. Lucia, Dominica, and in Brazil. Its wood is of a dark brownish red colour, strong and durable in dry situations, but apt to decay when exposed to the weather.

3. Trichilia trinitensis.—A small tree of Trinidad and Guiana. It has a close and even grained wood of a dark colour, and is known

as Naranjillo Blanco.

4. Cassia spectabilis.—It is the Casse of Trinidad, and is widely spread in the West Indies and South America, growing to a height of from 20 to 30 feet. The wood is of a dark or blackish tint, with

darker stripes, and is strong and durable.

5. Hymenæa Courbaril.—An enormous tree, known as the Locust, often growing to a height of 80 feet before branching, and forming a diameter of from 8 to 9 feet. The wood is of a fine brown colour, streaked with reddish veins. It takes a beautiful polish, is hard, close grained, and compact, and as it is not liable to split or warp, is much in demand, especially in British Guiana, where it perhaps attains its greatest size, for mill timber, engine work, ships—planks, &c. The wood is not altogether unknown in this country. A quantity of resin is often exuded from the trunk which gets buried in the ground, and lying there for some time becomes partially fossilised, and when dug up is cleaned and used like anime for varnish making. (See No. 21, Plate 7.)

6. Pentaclethra filamentosa.—A tree 30 to 40 feet high, known in Trinidad as the Bois Mulatre. The wood is of a dark colour, even grained, and said to be very durable, especially in damp situations.

7. Lecythis Idatimon.—This is a large tree, known in Trinidad as Guatecare; it is found also in Guiana. The wood is of a yellowish colour, strong, and very durable, and much valued in the colony for building and other purposes. This wood may perhaps be found too coarse in the grain for the general run of cabinet work, but we have seen samples quite suitable for many kinds of furniture.

8. Citharcxylum quadrangulare.—A fine tree growing to a height of from 20 to 60 feet, found in the other islands of the West Indies, as well as in Guiana. It produces a very compact and even grained

wood, of a lightish brown colour. It is very strong, and is much valued in the West Indies as a building wood. It is known as fiddle wood, a name corrupted from *Bois fidèle*.

9. Vitex capitata, known as the Bois Lezard. It is a timber tree of Trinidad, Guiana, and Equatorial Brazil, and produces a strong,

durable, and very valuable wood.

10. Chlorophora tinctoria.—A large tree capable of furnishing planks 20 feet long and 12 or 15 inches wide. The wood is close grained, light in weight, of an orange yellow colour, easily worked, and capable of taking an excellent polish. It is used by wheelwrights, and, to some extent, for furniture; but its bright colour should cause it to be better known.

Amongst the timbers of Trinidad and British Guiana are to be found some of the most distinct in point of colouring of any known woods-woods which may be said to possess a self colour, that is, an uniform colouring throughout without streaks, light, shade, or markings of any kind. Two of the most striking instances of this description of wood are to be found in the purple hearts of the West Indies, Guiana, Central America, and North Brazil, over which countries the species of Copaifera, which produce these woods, flourish, and also in a wood known as "Ducaliballi," the produce of a tree described as growing to a height of 50 feet or more, in British Guiana, but the scientific name of which has not yet been In the purple hearts, as the name implies, the wood, which is close and even grained, is of a rich uniform purple colour, and when freshly cut and polished it has a remarkably rich effect; unfortunately, however, the colour is not permanent, for after a comparatively short exposure, the wood blackens, and loses all the character for which it is valued in its fresh condition, requiring to be newly scraped to bring up the colour again, a manifest drawback for a furniture wood. This is not the case with the wood of the Ducaliballi, which is of a deep red colour which it retains with very little change for a long period. The wood is, moreover, close grained, compact, and susceptible of a high polish, so that with all these recommendations it is much in demand in the colony for cabinet and turning work.

Throughout these pages we have dwelt almost exclusively on the wood produce of India and the British colonies, but from time to time Englishmen plant their feet on new soil, and by making it their future home and annexing it for commercial purposes open up fresh sources of produce. In new countries thus opened up, it is usual to clear off forest growth, for the purpose of forming plantations for the cultivation of some well-known economic plant; but care should always be had of existing arboreal vegetation, not only for purposes of shade and for preserving the proper amount of rainfall, but also

for preserving the timber supply. In these new countries it not unfrequently happens that new products are discovered, and woods fresh to commerce may be, and indeed have been, amongst those brought to light. A recent instance of this kind in connection with the opening up of tropical Africa, is the development of the trade in the so-called African mahogany, a wood that has been known to botanists for a considerable time as the product of a tropical African tree closely allied to the true mahogany, and described as Khaya senegalensis. This wood has been brought more prominently to notice during the past year or two, and its mahogany-like character will no doubt recommend it for general use with us. In British North Borneo, again, where much has been done of late years to develop the natural resources of the country, as well as to prove its adaptability for new cultures, the timber yield has been well pushed to the fore, so that some of the best woods of the country are now known in English trade.

As these remarks are being written, the opening of the Imperial Institute at South Kensington has become an accomplished fact, and we briefly take the opportunity of referring our readers to the study of the woods in the Colonial Courts of the building. The screens dividing these courts from each other are made entirely of the woods of each colony, and are apt illustrations of their adaptability for cabinet and joinery purposes. We commend them to all who are in

any way interested in the subject of this paper.

THE UNIVERSITY AND THE PEOPLE; AND THE UNIVERSITY OF THE FUTURE.

BY PROFESSOR S. S. LAURIE.

THE subject on which I have been asked to write is a novel one. The universities of the past and present have, during the last seven or eight years, received more wide-spread attention from writers of monographs and of larger histories than at any previous time, but the "relation of the university to the people and the university of the future "have not engaged the attention of any, so far as I know.* Not many years ago I printed a book which dealt largely with the rise and constitution of universities, and had to form my own judgments and draw my own conclusions from restricted, and often contradictory, materials. The authority of the great writers of the past—Wood, Bulaeus, Crevier, Meiners—from whom all the minor writers had borrowed was generally questioned, and in the case of Paris an attempt was being made by Denifle to reverse the view taken by his predecessors. The most important book in English was by Bass Mullinger on the University of Cambridge, and the learned author himself, were he to issue a new edition, would doubtless seize the opportunity to revise and amend some of his opinions. Nor even now, spite of the researches of Kauffmann, have we the materials for a complete and critical narrative, although a good history might now be written with one-tenth the labour which would have been required ten years ago. We must await the completion of the various monographs on particular universities before we can take a final historical survey of the whole field, and exhibit the university life of Europe in its relation to the ever-changing aspects of thought and political life since the twelfth century.

At the same time the leading historical outlines have for some time been clear enough, it seems to me; sufficiently so, at least, to enable us to understand the purpose of the higher institutions of learning and to forecast their function in the future.

But if we are to do this and to convey to the reader anything but a mass of uninterpreted facts, we must find a point of view which

^{*}Since this was in type a survey of the historical relations of English universities has been published by Professor Jebb.

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will also be a point of departure. We must go back to the pre-Christian world, and find there the beginnings of our modern academic life. The reader must not be impatient of apparently remote events if he desires to understand the universities of the present day, still less if he would form an intelligent conception of the aims of the "university of the future."

We may say, generally, that the chief purpose of the higher academic institutions was always knowledge. This knowledge, however, had always for its aim a practical purpose—the explanation of man's life and destiny with a view to the settlement of questions which bore on the conduct of life.

Three nations have moulded the life of modern Europe—Palestine, Greece, and Rome. As soon as these nations had settled down to civilised life and had leisure to "look before and after," there gradually grew up among them groups of men who devoted themselves to investigation and thought. In every nation of the past, the mass of men were too deeply engrossed in industrial work and in the duties of government and war to find time to do more than acquiesce blindly in the theory of life which they had inherited from their ancestors, and which was embodied in their customs. religion, and laws. Only a few could give themselves to thought with a view to knowledge and the criticism of custom. So it is now, and so it will ever be. And if we are to continue to advance in knowledge of nature and man, and in a true comprehension of the significance of human life, the growing pressure of industrial competition and the clamant demands of each exacting day make it more than ever necessary that institutions should exist in which a few men may be set apart to maintain the connection of the present with the past, and to advance the knowledge of mankind for the benefit of their fellow men and of future generations. It is true that men so set apart are apt to forget mankind in their devotion to their subjects, and prosecute their studies with little thought of their practical bearing; but none the less, perhaps all the more, are they the leaders of thought and the benefactors of their race. The printing press disseminates their results, and all can now share in the fruits of their labour. The love of knowledge is in man inextinguishable, and the attainments of one generation are but the starting point for new enterprises of discovery.

Accordingly, were it the fact that knowledge for the sake of knowledge engaged exclusively the universities of Europe and America, it would still be necessary to maintain them in the interests of humanity at large. But they do not exist for this purpose alone, but for teaching what is known to all who frequent their halls, for preparing the next generation of investigators, and for

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training to the various professions which minister to our daily wants. The clergyman, the physician, the lawyer, the teacher, the engineer, and the agriculturist can (speaking generally) find in universities alone the knowledge bearing on their respective fields of social activity, ready organised and fashioned for their use. Every man, however humble, who benefits by the law of his country, whose diseases are diagnosed and alleviated, whose children are instructed, and to whom the teachings and consolations of religion are offered, is a debtor to universities. And it is scarcely necessary to point to the close connection of the higher mathematics and physics with engineering, railways, telegraphs, steamships, &c., &c., and of chemistry with innumerable industrial arts, to satisfy even the most exacting that to universities are due not only the thought which elevates the mind of man and lifts him to a higher plane of existence, but that exact knowledge which makes his life more tolerable while it lasts and promotes further advances in the conquest of nature and in the equitable adjustment of social relations. It is true that in modern times much of the function of universities is discharged with surpassing ability by the agency of those living outside them by means of the printing press; but the majority, if not indeed all, these active agents in civilisation ultimately owe their knowledge and inspiration to the work of men who live alone for abstract knowledge, and who are chiefly to be found now, as in the past, within academic walls working in accordance with academic methods. It will be apparent, then, that universities which at first sight seem remote from the life of the ordinary citizen are in truth closely connected with that life, existing, as they do, not merely for knowledge but for the dissemination of knowledge, which is thus made the possession of all. No institution, accordingly, is so essentially democratic in its aims, for none is so universal in the benefits it confers, irrespectively of race, religion, or social position.

It will be apparent that I am using the word "university" to include all schools of higher learning set apart for young men and women above seventeen years of age, the aim of which is at once scientific and practical—that is to say, which exist to prosecute departments of human inquiry and to teach what is ascertained to others. By these tests we may always safely try the higher university schools of the past and the present. If they fail to identify themselves with the advancement of learning, but confine themselves to the teaching and training of the youth of the country with a view to the professions, they discharge only partially the function of universities; they are merely advanced secondary schools. If, again, they aim at knowledge for its own sake alone they become semi-monastic institutions, and are divorced from the life of the

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nation: if, further, they take up only one part of the encyclopædia they become departmental colleges and divorce themselves from the great name of university.

These remarks are naturally suggested by our reference to the sources of our modern academic life—Palestine, Greece, and Rome. In Palestine we find the higher intellectual life of the Hebrews in the "schools of the prophets," out of whom came the great men who formed the religious and moral conceptions of the Jewish race. These men of genius gave us the Old Testament, in so far as it is a book for the whole world and not merely for a Semitic tribe. These men desired to know, but the supreme object of their knowledge was God and the relation of men to Him. Consequently they were great spiritual teachers, not only to the Jews, but to all mankind.

In Greece, we find that the thought of that wonderful race, concentrated chiefly at Athens, did not restrict itself to the idea of God, for which indeed it substituted Art, but sought knowledge in every direction impartially and with an open eye, giving to Europe its philosophy and the elements of the sciences, as well as a pure and noble literature which in the interests of the humblest modern citizen must ever be conserved and studied anew.

In Rome, again, we find a practical spirit. The Romans took up Greek thought and speculation, and tried to correlate it with the practical life of man. In so far as they speculated at all, they followed the Greeks; in so far as they were original, their higher schools gave prominence to law and oratory—the one to regulate social life and the administration of the State, the other to influence opinion and direct current politics and public policy.

If now we leap forward over a space of 2,000 years to the present day we find that a fully-equipped university comprehends these three great national aims—knowledge of God and His relations to man and the world; knowledge pursued in the Hellenic spirit, wide and impartial, including philosophy, literature, science; and jurisprudence and politics pursued after the Roman manner. To these has been added, in the course of the centuries, and as necessary outcome of the primary ideas, the scientific study of medicine, of history, philology, engineering, agriculture, and education, some of these more obtrusively "practical" in the ordinary sense of that word than the others, but all claiming a place in our higher institutions of learning, in so far as they rest on abstract knowledge and can be handled scientifically. To constitute a modern ideal university accordingly, which is at the same time to be the university of the future, we have to take all that was valuable

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in the higher teaching of antiquity, and to extend our investigations on every side in accordance with the spirit and needs of the time we live in. The ancient nations, it is true, had no institutions called "universities," nor any higher institution with this encyclopædic aim, but they had the reality without the name, each in its own special line of national genius. To the Greeks, for example, we owe scientific medicine and our medical faculties; but, except at Alexandria, medicine was not included in the philosophical and rhetorical schools, which were the true universities of Greece, and subsequently of Rome. And yet, by a succession of distinguished men, medicine, closely bound up with the study of nature, was taught to willing disciples; and when, after a lapse of time, modern Europe began to rise out of the ruins of the Roman Empire, it at once took its place as a leading subject.

About 2,000 years ago there occurred a great breach in the intellectual continuity of the race. Let us consider this for a moment: with the exception of Palestine, the religious faiths of the ancient world were going to pieces when Christ appeared, and the higher schools of thought were themselves fast degenerating into arenas for speculative disputations or into rhetorical forcing-houses. They had worn themselves out. The earnest pursuit of truth for truth's sake was represented only by a man of genius here and The more earnest minds, which had thrown off the superstitions by which their ancestors had lived, were clinging with unconcealed despair to some scheme of philosophy which seemed to offer them the only solution of man's life and duty in this transitory existence. The teaching of Christ now intervened, with its direct bearing on human life in all its relations. The divine enthusiasm which it inspired in its converts, began to remould the civilised world, and even before the recognition of Christianity by the Emperor Constantine, towards the end of the fourth century, its doctrines had engaged the attention of almost all the ablest minds. however, an error to suppose that the new religion undermined the university schools of Athens, Alexandria, and Rome. They were already tottering to their fall, when the new spiritual movement gave them their coup de grâce. Had Christianity, indeed, assumed a purely negative attitude to the Romano-Hellenic life and culture, and done no more, it would have to be classed among the destructive powers of barbarism. But it had its positive side; it had in it a power to build up as well as to throw down. It introduced more than one new idea into the life of our race. It broadened and deepened the sentiment of the common brotherhood of man by giving to human sympathy and love a divine sanction. Most

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important of all, it fortified the sense of personality. The individual was now not only a free, thinking spirit which had its personal life and personal rights, but this self-conscious spirit, the true person of each individual, was now seen to be rooted in God—to be of infinite importance "even in His eyes." Thus, by one stroke, as it were, the personality of each man was deepened, nay, consecrated, while at the same time his bond of sympathy with all other human beings, as children of the same Father, was strengthened. Two opposite results were thus attained; and these two were conciliated. the deepening of man's spiritual, personal life meant in truth the life with God, and it was in and through this life that his personality became a matter of infinite worth. This rooting of the finite subject in the eternal and universal Reason, while giving infinite worth to the soul of each man, at the same time made impossible that insolence of individualism and self-assertion which had characterised the subjective movement among the Greeks. Man became as a personality, much greater than the most exalted Stoic could have conceived; but by the very same act he was taught humility, dependence, humanity, love. Education had now to be reconstructed from this foundation.

As may be easily understood, that part of the new doctrine which taught that man lived for a hereafter, and that this life was a preparation for that hereafter, first told on the educational efforts of the time. The leaders of the new Evangel directed themselves chiefly to catechising and instructing with a view to a city not of this world; and they did so in expectation of the early dissolution of all things. They also began to prepare ministers of Christian doctrine; for the people had to be instructed in the new philosophy of life, and temple There was great moral activity and services had to be conducted. a wide comprehensiveness in the new "sect;" and so far as education was concerned, it might fairly be said that every Christian assemblage where the gospels were read, prayers offered, and hymns sung, was a people's school. To discharge this religious duty and to train its ministers was as much as the infant community could be expected to do. This it did in the catechetical and, afterwards, in the episcopal schools; and thus a fresh beginning was made for the education of the human race.

The rise of Christianity and Christian education, and the irruption of the Teutonic races from the North into the fruitful fields of Southern Europe, finally dissolved ancient society, and swept away the very memory of Hellenic genius. Even in the East, where nations were held together by Byzantine dynasties governing from Constantinople, it was the settlement of Christian doctrine that now exclusively

^{*} These schools, as distinct from pagan institutions, date from the close of the second century.

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engaged the minds of men, and, save in the department of jurisprudence and medicine (at Alexandria), the Hellenic and Roman conceptions of man and nature had vanished for ever. But even in the defining and developing of Christian dogma which had been going on side by side with the decay of ancient learning, there were no great minds engaged after the death of St. Augustine (395 A.D.); and for 600 or 700 years after his death, the higher education as it had been understood at the great ancient seats of learning was practically non-existent. Ancient books and traditions, however, were fortunately preserved in the monasteries, and such learning as existed

was to be found in these secluded religious communities.

If we are to understand modern Europe, we must at this point of history turn our back on the disintegrating past and fix our eyes on the new constructive forces which were already beginning in the fourth and fifth centuries to mould the Europe of the future. These forces were essentially ethical in their character, as indeed are all the forces which ultimately determine and explain the history of nations. On the one hand, the Christian scheme of a philosophy of life, and on the other hand, the civil and the civilising law of Rome were the great living operative institutions. It was a grand conception, this new conception of a Church. Men organised not merely as political societies, but as a one all-embracing spiritual society—a community of souls whose ethical life and immortal destiny were the supreme concern, all else being subordinate and of small (because transitory) importance. This church idea ran parallel for a time with the civil and secular law of the State, but ere long it sought to overpower the latter, as it had already overshadowed it. Hence the beginnings of a contest between two principles still alive in our own day, a contest which at bottom is a struggle between the civil and the spiritual conception of society. It was the spiritual power which alone, as might have been expected, concerned itself with education, and nothing could consistently be held by it to contribute to the forming of the life of a human being save what trained up to the church conception of human life, which was necessarily a theological Man's inner history had now a far more profound significance than anything dreamt of by the most forward races of antiquity. Greece and Rome as sources of intellectual and moral teaching had been blotted out, and the atmosphere breathed for at least 750 years was, essentially, that of Palestine. Men, however, could not live permanently bound and restricted by the theological idea and the narrow formalism of a crystallised creed. The perennial and ever-recurring claims of reason as reason had to be satisfied. in the eleventh century that the mind of Europe began to be stirred to activity in various directions outside the ecclesiastical. field of education it gave itself to the furtherance of the higher

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learning and not to the education of the people. And, I think, rightly. What the people chiefly wanted was good clerics, good physicians, good teachers, good lawyers; and for this they had to look to higher schools. More is accomplished for the civilisation and education of the masses by supplying every part of a country with good professional men than by teaching everybody their A, B, C. The educated professional few carry with them a standard of life wherever they go, while serving their fellow-men in all that concerns

their daily needs and highest interests.

The voluntary associations of learned men which represented the awakening mind of Europe, and formed the nucleus of universities, were in truth engaged in restoring the thought of Greece and Rome in connection with the now dominant and organised Christianity. Roman law in its full historical sense and Greek philosophy and medicine formed the substance and source of the new teaching: the men of the 12th century were knitting together the broken continuity of the life of reason. The thought of Greece and Rome, in short, had now to be co-ordinated with that of Palestine in the life and education of a modernised Europe.

It will be apparent from what I have said that the modern university had now and henceforth for its function the carrying forward, in accordance with modern methods, of the united traditions of Palestine, Greece, and Rome, and, as pioneers of humanity, advancing the bounds of knowledge on these ancient lines. They did this, however, and are still doing it, in no abstract spirit, but with a view to place men on a higher plane of rational life and to prepare for the various professions, so that the whole nation may through the professions benefit by the endowments which have been left by far-seeing citizens, and the privileges which have been granted by wise statesmen.

It was, in point of fact, this practical and professional side of the higher learning which engaged the attention of the originators of universities—then called Studia Publica or Generalia. The earliest of these institutions was, in fact, a medical college, with, of course, a preparatory training in arts (1060). It was situated in Salerno, near Naples, and probably owed its origin to the Benedictine monks of Monte Cassino, not far off, who had always a reputation as skilful leeches. The next institution holding university rank was Bologna, which also was a specialist school devoting itself to law (1080). The university of Paris may perhaps rank next in order: theology constituted its special feature, and teaching and the services of the church its practical aim. But as theology required for its scientific treatment

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the study of philosophy (including under this, ethics, and Aristotelian physics), it naturally and early came about that for philosophy and theology Paris was eminent, and kept the lead of Europe for centuries. Oxford and Cambridge next arose as schools of arts and theology, and Montpellier, in France, as a school of medicine.

It was only after these universities, or specialist studia publica, had existed for a considerable time that each began to add to itself (and that very gradually) the faculties in which it was deficient, and accordingly, before the year 1300, no institution was regarded as a complete university which did not profess investigation and teaching in the four faculties of theology, law, medicine, and arts. By "arts," in its more restricted sense, was meant grammar, logic, rhetoric, and mathematics.

It was not necessary, however, that all the faculties should be included in order to justify the title of "university," for this word meant nothing more than a Studium Publicum, or Universale, or Generale; that is to say, a school open to all the world which gave the higher teaching in one or more departments, and granted a qualification to practise the professions or to teach. To this day many of the universities are incomplete in their faculties, and it is only of late years that great universities like Oxford and Cambridge have revived faculties which had been allowed to die, such as medicine and law. In the ancient university of St. Andrew's, in Scotland, there is even now no faculty of law, and Aberdeen is only trying to form one. The faculty of medicine also in St. Andrew's is only now being established on a proper basis by means of a separate but incorporated college.

The above facts sufficiently show that the original aim of the higher schools of the modern world was practical and professional; nor could they have existed on any other terms. It was at Paris alone that philosophical inquiry, embracing under philosophy questions of natural science in accordance with Hellenic tradition, truly flourished, leading in the course of time to freedom of speculation and to scientific investigation, and thus indirectly accomplishing much for the political liberties of Europe by pro-

moting liberty of thought in abstract fields.

Let us now advert to the primary constitution of the first universities, which is the next point of interest as bearing on the

university of the future.

Universities were, to begin with, not founded either by Pope or King. They were voluntary associations or colleges of teachers, who offered to instruct all who came to them with a view to the different professions. They lived by fees. They had no public

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The lectures of the masters or doctors were given in their own houses or in hired halls. Their great ceremonies were performed in churches borrowed for the occasion. These voluntary associations of learned men were free, in so far at least as they professed and taught free from monastic restrictions, although it is true monks taught, and in course of time monastic orders tried to get possession of the whole academic machinery. The university, accordingly, is to be regarded as not only marking the beginning of professional studies, but as the beginning of the liberation of the mind of Europe from the monastic and ecclesiastical control of the earlier half of the Middle Ages. It is absurd, I think, to say that the university was a "lay" movement in antagonism to the ecclesiastical spirit, but it was unquestionably a lay institution and contained the seeds of intellectual liberty. To the university accordingly the modern world is deeply indebted. It can never pay its debt, so great is it. And resting as heretofore on a historical basis, and discarding merely theoretical views, I affirm this, in addition to certain other propositions already implicitly laid down as emerging from the above survey of historical origins, viz., that freedom of thought and speech is essential to the idea of a university, just as it was in the inmost heart of them when they began to live.

Further, I would say that these self-constituted, self-governing communities moulded themselves, consciously or unconsciously, on the mediæval guilds. They were guilds of learning—literary guilds. Of these guilds even the scholars were members, and the masters (afterwards called professors) held very much the same relation to the scholars as a master in an industrial guild held to his apprentices. The masters were equal one with another and elected their own rectors (in some cases with the concurrence and votes of the scholars). From this historical fact emerges another mark or note of a true university. It is a guild, republic, or commonwealth resting on intellect and character alone, and in no way dependent for the position of its members on the adventitious circumstances of fortune

or birth.

Ere long the Pope granted Charters of Privilege to these institutions, and soon after kings and emperors began formally to found them within their dominions for the benefit, primarily, of their own subjects, though they were open to all the world. The stream of young men constantly traversing Great Britain and Europe to study at Paris and Bologna was thus gradually reduced. But it can be easily understood that the founding of universities and granting of privileges gradually abstracted somewhat from the freedom and independence of the learned communities. But the freedom, independence, and autonomy were never wholly lost, and under new

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forms they substantially exist to this day in the leading universities of Europe. In so far as a learned institution is not autonomous, but governed by a single head or an outside committee or board, it is not a true university, but merely a college or school, however great its reputation may be. There can be no doubt that it is the freedom of thought and speech, the personal freedom, the republican equality and autonomy of universities which, more than anything else, have attracted to them the intellects of Europe. It has been from the first in the interests of the people, and under democratic conditions it is in an especial sense their interest, that universities should be self-governing and free, and be in a position to offer resistance to temporary phases of popular feeling or oligarchic despotism.

I may now sum up the characteristic notes of a university in its modern and best form as these are suggested by the above brief survey, and propound them anew as the essential marks of the university of the future:—

1. The university must embrace the whole tradition of philosophy (including under this religion), science, and learning (language, philology, literature, history, law, &c.), and each subject must be represented by a professional expert, with such lecturers, assistants, and tutors as may be required working round him as centre.

2. As the university exists for knowledge which all are to share, each professor is under obligation to advance the bounds of his subject and contribute them to the world outside the university (and this should be done at the expense of the university if need be).

3. Each professor, with his staff, must teach the subject, and the method of investigation peculiar to it, to all who may come to him, whether they intend to graduate or not. The professor is there to teach as well as to learn.

4. Each university must so group its studies as to train for all the professions, and so benefit the world at large by sending out its ambassadors and representatives among the people in every department of intellectual, as distinct from industrial, activity, so that all may share in the thought of universities.

5. Each university must, as a guild of investigators and teachers, be a literary republic, self-governing and free, with only such restrictions and right of supervision as the State may in the general interest determine.

interest determine

6. As a guild, each university must train its own apprentices or specialists, so as to secure the apostolic succession of competent

representatives.

7. As the guardians of the realm of knowledge and ministers of science, each university must be at once a storehouse of the learning of the past and a leader of thought. To it, graduates, who, wherever

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they may be, always remain members of the guild, should be encouraged to return from time to time to find there (without payment) the last results of investigation—each in his own depart-

ment of social activity. And this for the general weal.

As regards the students in statu pupillari: These are presumed to enter on their various groups of studies fitted to do so, not merely by acquired knowledge, but by maturity of mind. Graduation in this or that subject or group, so far from being essential to a university may be said to be in these days almost a superstition. Universities, it is true, have inherited the sole privilege of granting degrees; but they do not exist for this purpose. They exist to prosecute study for the sake of mankind, and to equip young men for the work of life. In the interests of the people and for their protection, however, it is necessary that every man and woman entering a profession should have a certified qualification, and this we call a "degree." Such a qualification is best to be had through the universities to whom the privilege originally belonged, and the State should always depute it to them in order to save the duplication of agencies, and to give strength and dignity to their highest educational institutions. except for this specific purpose, degrees are mere accidents of a university; and my conviction is that if there was less competition for honours in graduation and for the rewards attached to these, our universities would produce more and teach better. case, few, I hope, will question the position that every professor and every subject should be accessible to the general public without reference to graduation.

-As to their means of support: It is quite clear that if universities are to accomplish their work for the nation they cannot be selfsupporting. Even primary schools cannot be self-supporting, much less secondary schools, least of all universities. They have to look ultimately not to individual benefactors, but to the whole body of the people for maintenance. They are entitled to it in a sense in which no other institution is entitled to it, because, as I have shown, they work for the whole nation and not for a part of it only. Let the idea. and purpose of universities, as I have endeavoured to explain it, be thoroughly understood by the people, and the people will not grudge their fitting maintenance. In Germany, where the university ideahas been most fully developed, the State contributes 72 per cent of the total expenditure. In England and America (outside the State universities) the main source of revenue is private endowment and the fees of the students. In Scotland the State contributes

about £70,000 a year.

The poorer class of citizens, while frankly acknowledging the benefits they receive from universities, may yet sometimes have felt

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aggrieved that they are not open to their clever sons. In a sound social system the rise and fall of families is necessary to the health of the body politic and to the stability of social order. To facilitate this, reasonable provision should always be made to secure for scientific investigation and the professions the really able children of the people; but only the really able. Much nonsense has been talked about the "ladder" from the gutter to the university. Make that ladder climbable by the ordinary brain, and, ere long, young men of creditable diligence but of ordinary capacity will find themselves, among a crowd of competing graduates, elevated to genteel destitution and supreme discontent, instead of earning an honest solid wage in the service of society in some congenial occupation. In this "ladder" phrase of the popular orator we encounter, it seems to me, both a superstition and a vulgarity. A superstition because many seem to imagine that the "higher education" can be obtained within the sacred walls of a university alone. This is in these days notoriously not the fact. Professional fitness, it is true, can alone be adequately obtained in such institutions, but education can be obtained outside them by all who have it in them to care about their own education. Libraries, cheap literature, lecture courses, have placed within the reach of every youth in our towns (and will ere long do the same for our villages also) all the education a man needs either for this world or the next. I guard myself so far as to say that the "ladder" has a meaning, and it should exist, as it has always existed in Scotland, for the specially able; but I hold, in the interests of the climbers themselves, that it should be difficult to mount. Were a university course necessary to education and culture, in the best sense, of a human being, the ladder should then be made easy to climb; but to suppose this is to be the victim of a survival of an effete idea. Education is what all want, and all may now get it, if they choose, without going to universities. University teachers themselves are, as a matter of fact, frequently not educated men in the sense of "cultured" men. Each man is too much of a specialist, and ridiculously exaggerates the importance of his own corner of the vineyard. This is, so far, well for the advance of knowledge; but it is fatal to the education of the individual. He does not come into contact with nature, with man, and all the realities of life in the broad and liberal way which is possible for the citizen of the world; and thus he is apt to be finally and fatally narrow. This is not education. There must always be an aristocracy of mind—a select few who are specially endowed for the advance of science, philosophy, and literature. God has arranged for this; but there need now be no aristocracy of education in the true sense of that word. If the living fountains may not be

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approached without money and without price, they are now accessible at a cost which every man who is prepared to sacrifice a little may easily pay.

I have said also that the "university ladder" is a vulgarity as well as a superstition, because there underlies it the notion that only by rising into another class in life can a man fulfil his function as a man and be also "happy." I presume that provision is made for the absorption into the professions and the work of investigation of the very best brains of the poorer classes; but, speaking generally, there can be no doubt that the average man will best attain both education and "happiness" by doing thoroughly well the business for which he is best suited, it matters not what it is. Infinitely more important than the "ladder" are such industrial arrangements as shall admit of social relaxation, literary interests, and intelligent political study on the part of all. It is not desirable to tempt men into professions. The gospel of "getting on" is after all a devil's gospel. All any man can rationally desire is the means of adequately maintaining himself and his family under civilised conditions—conditions which will enable him to make the best of his humanity, while doing effectively his specific duty in the social organisation.

The university of the future, as will now be seen, is simply the ideal university of the present; and that, again, is a product of the best traditions of the past. Is there nothing else and nothing new that they can in these days be expected to accomplish for the nation which supports them? This they can do-they can further extend their aims so as to embrace all subjects which admit of scientific treatment and scientific methods. To the genuine academic man as opposed to the narrow academic pedant there is nothing common or unclean. I do not mean that universities should have chairs of the science of the art of fly-fishing, or the art of sweeping the streets, but only of such subjects as are general in their relations and cover an uncountable, or at least an uncounted, number of details. The nation is entitled to claim this comprehensiveness. Exclusiveness in particular lines of study will be fatal to universities when they finally rest on the popular will; and it ought to be fatal to them. A university which imagines that it attains the ends of its existence by the production of a "classical fellow" is digging its own grave. Vast now are the fields of knowledge, vast the intellectual and ethical interests of mankind. In every field the university, while not breaking with the past, has to adapt itself to the present and the future, and in every department to investigate, to propound, and to guide. As soon as the broad

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current of the life of humanity passes them by, leaving their walls untouched by its living waters, they will perish, as they have

perished often in the past.

Again, the university of the future which teaches by publications will not convert its University Press into a tradesman's shop, but use it after the example set by President Schurman in Cornell University, New York State, by the University of Chicago, and by Harvard, to issue journals of philosophy, education, and science, telling the world what it is accomplishing for it, and sharing with it the results of its studies. We have much to learn from the United States of America.

If the above be a correct statement of the nature of a university. it follows that a body constituted solely to examine for degrees usurps the name of university. It has only one characteristic of a true university, and that is an accidental and adventitious, rather than an essential, characteristic. It is in my opinion vital to true education that those who teach should also examine on the lines of study which they have laid down; assessors being appointed to check narrowness, and to secure an equitable exercise of a power which affects materially the rights of students. Colleges may be constituted parts of a university provided they comply with university requirements as to qualification and standing of teachers, and accept the university assessors. In that case, however, the assessors, as discharging the function of judges, carrying a certain standard of attainment and method from one college to another, must be highly-paid officers, if we are to secure men eminent in their respective departments, of independent character, and above suspicion. In this way the university of the future may extend its centres of influence by recognising local colleges.

There is still a fourth way in which the university of the future will continue to extend its benefits and consequent influence; and this, by bringing them in contact with the people, will re-act on them by stimulating their vitality, for it will supply to them some of the breath which sustains the great world outside. I refer to the

Extension Lecture system.

At this point I pause to take up a paper by Professor Mahaffy, published in the Nineteenth Century, and I find that, while concurring with much that is there said, I dissent totally from the tone, spirit, and practical purpose of the article so far as universities are concerned. Anything more un-Hellenic I never read. It is not only conservative and obscurantist in its attitude, but retrogressive. The narrow and wholly unhistorical meaning which Professor Mahaffy gives to "liberal arts" shows that he would have contended for the exclusion of medicine from the ancient university of Paris

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700 years ago, and of civil law from other universities. have kept the universities mere "trivial" schools of scholastic logic and a little mathematics with metaphysics and theology for the more advanced. The university of the future, I hold, must, in loyalty to the spirit of the past, and in obedience to the bidding of ancient Greece itself, include all subjects which have a general bearing on the life of society and admit of scientific method. And, as to languages, while, not admitting that French, German, and Italian are so important educationally as Latin and Greek, they yet can be handled in an academic spirit, and yield a culture far transcending the miserable scraps of antiquity which the "pass" graduate crams for his degree. Professor Mahaffy in his admiration of the "great old studies," as he calls them, gazes with fond admiration on the past. But he does not look far enough back. Athens and Rome knew nothing of the "great old studies;" the mediæval universities knew nothing of the "great old studies." "The number and division of the subjects for a liberal education [now accepted]" were not "fixed by long mediæval tradition." They are modern. It is only the past of Professor Mahaffy's great-great-grandfather that constitutes his ideal and calls forth his sentimentalism. Even in the sixteenth century where was history? where was Greek? and in the middle of the fifteenth where was even Latin? Even in Milton's time we are told by that true inheritor of the genius of antiquity that the universities offered an "asinine feast of sow-thistles."

But to pass from this, I would recur to the fourth way, and say that the universities can maintain their connection with the life of the people by that very system of extension lectures which a sacred few who monopolise "true culture," and whose intellectual life revolves round elegant sentences and the settlement of all questions by epigrams, despise. The idea is an old one and will be found in the New Atlantis. No doubt this new movement requires criticism, and will be the better for it. Above all, it requires to be purged of the greatest of all the evils that attend it—examinations and marks. But who originated this essential departure from the idea of genuine education but the universities themselves, where these things flourish rampant, destroy unencumbered freedom of study, tend to quench original investigation and devotion to truth irrespective of

"rewards?"

If we put an end to this educational abuse, and to the false notion that extension lectures can give a university education, what but good can come of courses of lectures which widen the interests and help to direct the thinking of the middle and artisan classes? Every good movement has its attendant evils. Professor Mahaffy thinks it a poor result of the great movement of popular education that those who have learned to read, read only trashy stories and partisan

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newspapers. But what is the result of secondary education among the upper classes, not "persons of the poorer sort" (whom Professor Mahaffy feels to come between the wind and his academic nobility)? What does the Public school boy, who has been bred on the "great old studies," read? What does the young lady peruse in the bouldoir after she has been duly "finished"? Who reads the "odious weekly press," with its adulteries, society scandals, &c.? Professor Mahaffy thinks that it is the board-school boy and girl. Does he forget that these journals, with few exceptions, cost sixpence? In truth, the argument of the brilliant Irishman is an argument against all education except that of the college don, who is to sit in his chamber and gaze with rapt eye at the "great old studies," although he probably has not read, except for professional purposes, a play of Sophocles or a line of Lucretius since he used them for the double purpose of gaining money and place. Does he really, in his heart, think that the "common room" product of the "great old studies" is the triumph of civilisation?

Let me say, in conclusion, that the danger to which the university of the future is exposed is interference with their liberty of thought and government on the part of the democracy. Slow to apprehend remote issues, and swayed by the impulse of the moment, the people may be intolerant of abstract study, and may also resent teaching which runs counter to their own temporary convictions and supposed interests. To obviate this, we can only look to the general diffusion of education, and to the action of the universities themselves in casting aside all narrow conceptions of their duties to the public.

University of Edinburgh, September, 1893.

BY JAMES LONG.

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REMEMBER that as a boy, when scientific teaching—nay, scientific revelation—was but little recognised, I formed a belief, founded doubtless upon the basis of religious instruction, especially with regard to the Divine power, that the plants of the field grew in mysterious obedience to the omnipotent will without the contributory aid of air, light, or food. Since then unhappily many years have passed away, but science has been gradually developing and formulating facts which enable the student of to-day to look upon the soil and the plant as men of the past generation looked upon food and animals. We are now led to regard both plants and animals as organised and living creations alike feeding to live, and alike flourishing in the sunshine and the pure atmosphere which surround them. There is a connection between the plant and the soil which is more subtle than appears at first sight. The rotation adopted by the farmer in growing his crops is not more salutary than the rotation by which he unconsciously converts plant or organic life into constituents of soil, and constituents of soil into organic or plant and animal life. He harvests his crops, large portions of which, after passing through the animals he owns or beneath their feet, are converted into manure, carried into the fields, and by the process of decomposition reconverted into their original elements. Briefly, the larger the quantity of manure returned to the soil the larger the crops it yields; hence it follows that the larger the crop grown upon a given area the larger the number of animals it will feed, and the greater the quantity of manure it secures. Primâ facie, it appears that inasmuch as a large quantity of the produce of the soil, direct and indirect, is removed from it for the use of man, the soil must be gradually submitting to a course of impoverishment. Whatever may be the case, however, where soil is badly tilled, it is not so under the recognised agricultural system. Nature does a great deal, as we shall see, to supply fertility, but man also does something, and it is within his power to levy contributions from nature without cost and with as little trouble as he exerts in purchasing and utilising artificial fertilising matter.

Soil is matter, and matter has been described as that which occupies space. Our earth is a globular mass of matter, one-fourth of which is covered with a crust composed of rocks. These rocks, it has been estimated, are to the extent of one-half composed of oxygen, which has been absorbed from the atmosphere. The earth's crust is almost wholly composed of sixteen elements, although the majority are present in but small, in some cases even minute quantities. The rocky crust of the earth, however, is not soil, yet portions of rocks contribute to soil formation, and are necessary to its composition. The materials of which organic life is composed are oxygen, hydrogen, nitrogen, and carbon—all derived from air and water-lime, potash, sulphur, phosphorus, iron, and other elements, in very small quantities it is true, derived from the earth's crust, or in other words from the primitive rocks. These earthy elements are taken up by the roots of plants direct from the soil in which they grow, in some cases through the medium of water in which they are dissolved. Water itself supplies them with oxygen and hydrogen, the atmosphere with carbon through the medium of carbonic acid, and in some cases it is now known directly with nitrogen. comprehensible when we see plants growing on a heap of stones, trees on barren rocks and almost desert sands. A fertile soil, however, is very different in its composition to either a sandy desert or a barren rock. As we shall show, organic matter, the product of animal or vegetable life, usually called humus, is a necessary constituent. It is indeed a constituent supplying in its decomposed form not only every kind of food necessary for the sustenance of plants, but providing the physical properties which assist in admitting air and water and maintaining heat, all so essential to plant life.

It is unnecessary to inquire as to the origin of the earth's rocks, the basis of soils, and the structure upon which soil rests. Astronomers and geologists have advanced theories which are accepted to a more or less extent. The origin of plant life itself is a subject which

has exercised the greatest minds.

Scientific men of the first rank have suggested that fungi of certain kinds represent more closely than any other living forms the original ancestors of the vegetable world. Professor Huxley, who deprecates even the right to give an opinion, says that if he were able to look beyond the abyss of geologically recorded time to the still more remote period when the earth was passing through physical and chemical conditions, which it can no more see again than a man may recall his infancy, he would expect to be a witness of the evolution of living protoplasm from not living matter. He would expect to see it appear under forms of great simplicity, no doubt like existing fungi, with the power of determining the formation of new protoplasm from such matters as ammonium

carbonates and other similar substances, and water, without the aid of light. It has been suggested by another eminent scientific man that the first life-form may have arrived upon the earth upon one of those metallic fragments which, whether portions of the debris of other planets or not, have at all events puzzled the minds of the most famous astronomers when attempts have been made to account for their origin and presence on the earth. Whatever, however, may have been the first cause, we have to take it for granted that the germ of organic life is protoplasm (protos plasma, first moulded), protoplasm being, as Sir Henry Roscoe describes, a

structure, not a compound.

Soil has been produced by the gradual disintegration and decomposition of rocks. The agents in this action have been, as they are to-day, for it is still going on, rain, frost, and the atmosphere. It consists of a fine powder mixed with particles of matter of larger and varied size. This powder may be divided into mineral and organic matter of both vegetable and animal origin, of which we may take decaying plants, such as the roots of our cereal crops and grasses, and manure as examples. The actions which have produced it are assisting to increase it, and that constantly. Let us first refer to the disintegration of rock. It will be remembered that if a lump of clay be exposed to rain until it is saturated with moisture, and then similarly subjected to the action of frost, it will ultimately fall to pieces; as it is commonly termed, it is pulverised by weathering. The agriculturist takes advantage of these forces of nature to assist him in preparing his soil for seed. Similarly rocks exposed to the air become saturated upon their face, frost supervenes, and disintegration follows with a similar result. The atmosphere assists in the work of decomposition through the medium of its oxygen which combines with some of the constituents of a soil; this is termed oxidation. A soil essentially consists of sand and clay with proportions of humus, lime, iron, and other materials; but we may take it that neither sand nor clay are present in pure forms. From the point of view of fertility the surface soil is rich, the subsoil poor. Portions of the subsoil by continual acts of tillage are being brought to the surface and mixed with the surface soil, and in this way a greater depth of surface soil is continually being provided. produce of the earth is, practically speaking, the produce of the soil and of the atmosphere, for air is as necessary as the mineral constituents of the soil, and as water. It is easy to ascertain not only that plants are partially composed of water, but the proportion of water they contain. If a given weight—ten pounds, for example of grass be cut during fine weather in order that there may be no suspicion of rain or dew upon it, and subsequently dried until its weight remains constant, it will be seen by deducting its dried

weight from its original weight when green exactly how much Similarly it is easy to ascertain that a moisture has been driven off. large proportion of the grass—and the same applies to all plants—is air derived. The dried grass being ignited and every particle burnt, the weight of the ash remaining, deducted from the original weight of the dried grass, will give the proportion which has been dissipated by combustion, and which is in fact air derived. The balance, being non-combustible and inorganic, is ash or mineral matter which alone came from the soil. Let us take from Ville an example. He shows that in a hundred pounds of wheat, 93\flactrices lbs. are air derived, while of the remaining 6½ lbs. only three consist of nitrogen, also air Potash, phosphoric acid, and lime alone are of importance, the balance representing mineral matter which is usually found in all soils in sufficient abundance. The water of a soil is not only a direct food of itself, but it is as it were a vehicle by means of which the soluble constituents of a soil needed by the plant are conveyed throughout its structure, for it must be remembered that a portion of the indestructible ash residue of the burnt plant is dissolved in The mineral matter of a soil in solution in water has been shown to vary between 2 and 100 per 100,000 parts. The productive power of a soil relates chiefly to those of its elements which can be assimilated by plants, while its fertility chiefly depends upon its physical condition.

The differences in the temperature of soils are especially noticeable after heavy rain. On soils of the lighter class, those in which sands and gravels predominate, the ploughman is able to go to work almost immediately the rain has abated. The heavier soils, which are chiefly composed of clay, he is unable to touch, without inflicting damage, for some considerable time, often many days, after rain has fallen. Soils may be divided into clays, sands, gravels, chalks, peats, and loams. A clay is a soil in which clay largely predominates; the same remark applies to sands and the soils of other classes. A loam, however, is a soil of a mixed character. Technically it has been assumed that a loam is composed of a mixture of clay and sand, but practically it is recognised as a soil containing liberal proportions of clay, sand, limestone, and humus, or organic matter. A rich,

workable, fertile loam may consist of—

$P\epsilon$	er cent	Pe	er cent.
Clay		Limestone	

In practice, soils of each class, if we except loam, are improved by the addition of those materials in which they are deficient. A light sandy soil is improved in texture by the addition of elay, in which certain mineral food constituents of plants are also present. If to this sufficient lime is added a foundation is prepared for the growth

of crops, and with a natural deficiency of humus the grower will at once attempt to further improve it by either ploughing in green crops which he is able to grow, and which rapidly form humus, or by feeding the crops he grows upon the soil, enriching it with manure, which is practically the same thing. Similarly a clay soil is improved by the addition of sand and vegetable matter. Knowledge of the process by means of which this addition is affected is. however, most desirable. A light sandy or gravelly soil would be improved by the trampling of sheep folded upon it within hurdles, and feeding upon the crops produced for their benefit; but the clay soil, already tenacious enough, would be damaged by any such process, hence the crop is either ploughed under the surface or carried away and returned in a dry form such as is recognised in long manure, composed chiefly of straw, for the reason that it lightens the texture and is the means of admitting air and rain into a composite mass which is so plastic that it would otherwise refuse admittance to both.

We have noticed the fact that in the formation of soil, water in the form of rain plays an important part, but it has done a great deal in another way. If we notice the effect of rain upon a gravel road after a severe storm we shall see that the gravel has been washed clean, and that the fine sandy matter which has been produced by constant wear has been carried to the bottom of the hill, where it remains as silt or as a mixed sandy and earthy mass. Larger masses of water have similarly carried soil away from a higher to a lower altitude, during the vast period of time, until deposits of a very large extent have been formed, ultimately resolving themselves into luxuriant fields. many parts of our country large tracts of soil have been deposited in another way. An example may be given, although it is one afforded by the skill of man. In parts of North Lincolnshire land is constantly being subjected to what is known as warping. The waters of the Humber are turbid with organic matter. At high tide, the soil over a given area, for which provision has been made at considerable cost, The matter in suspension in the water is deposited and the water is subsequently run off, leaving behind it its most valuable ingredient. Similar floodings take place until the deposit has reached perhaps a foot in thickness. The soil is then immensely improved, and is capable of growing luxuriant crops for a very considerable period. The benefits, however, which are derived by the soils in some districts from the action of rain, which brings them valuable deposit, have the very reverse of a salutary effect upon the more elevated soils, which, as in parts of Devon, for example, are as constantly impoverished, although they are improved by the persistent efforts of the farmers. In times past it was the

practice to carry soil to the higher fields from the lower, which could well spare it, in order to enable them to produce crops. The formation of soils has also been assisted in bygone days by the action of glaciers, which, as they ploughed along, ground the rocks beneath them, leaving matter behind for the benefit of future generations.

CLAY SOILS.

As clay soils are most tenacious so are they, unless too plastic for cultivation, most retentive of the fertilising matter they contain. A clay soil containing a fair proportion of sand and vegetable matter is capable of producing heavy crops, and although difficult to work in dry and wet weather it is essentially fertile. It absorbs heat very slowly, especially below the surface, and for this reason it is usually described as a cold soil. For the same reason, also, decomposition is slow, a certain amount of heat being necessary for the decomposition of organic matter. As oxidation is essential, too, that is not very rapid, for air is unable to enter unless by frequent cultivation the soil is stirred. Artificial manures of great value on lighter soils are not so effective as farm manures upon clays for the reason we have already stated, the physical influence of the straw of dung being almost as important as its manurial influence. Clay is also retentive of water, which it permits to evaporate but slowly, so that a clay soil may be dry on the surface and yet damp below; in consequence, too, of its peculiar tenacity capillary action is slight. If a piece of sugar be placed in a small quantity of water just covering its bottom surface it will be observed that the water mounts upwards. Similar action occurs in a soil of any but the most plastic texture, and this action is continually proceeding, to the great benefit of plants with shallow roots. On some clay soils the action of rain causes the clay to separate from the sand with which it is combined. Thus a crust is formed on the surface, which is almost impermeable to both rain and air. Clay is practically composed of alumina—a combination of aluminium and oxygen—of silica and water, with small proportions of potash, magnesia, calcium, and iron. Its alkaline properties are of considerable value to plant life, and for this reason clay soils are usually able to produce certain crops which could not be grown upon other soils without expensive preparation or manuring. A loam in which clay is predominant, and which is called a clay loam, is the best class of soil for the production of wheat and clover. It possesses two properties which are especially valuable to the latter plant—its possession of potash and its firm texture. Clover is recognised by the farmer as a good preparation for wheat, clover having the faculty of being able to obtain free nitrogen from the atmosphere which, after the decomposition of its roots, is available for use by the wheat plant.

SANDY SOILS.

SANDY soils, which are the easiest to cultivate, are among the poorest in nature, their poverty depending to a large extent, however, upon the proportion of sand which they contain. No soils are so hungry; in other words, no soils retain the fertilising constituents of manure so badly, hence they are always ready for manure however recently it may have been given. The sand of a soil is usually silica or quartz, but it may be largely composed of feldspar, a substance which is rich in potash, in which quartz is deficient. A sandy soil in which feldspar is present becomes richer in potash year by year under ordinary tillage. A sandy loam is not only an easy soil to handle, but it is excellent in all-round properties—sufficiently heavy to retain moisture and fertilising matters, it is tillable in almost all weathers, it is easily warmed, capillary action is constant, and it will grow almost all kinds of crops. In the management of a gravel soil it is preferable to manure often, giving a small dose on each occasion rather than heavy dressings at wider periods apart. Oxidation and decomposition of vegetable matter is easily carried on in consequence of the penetrability of sandy soils, air and water permeating them with ease. Soluble fertilising matters are distributed on such soils in spring, when they are taken up with rapidity by the growing plant. At other times of the year they are easily carried through the soil into the subsoil and lost in the drainage water unless crops are growing, when they may be to some extent retained. Sand has the property of not only making a soil lighter but warmer and drier, hence where sand preponderates plant life may be starved for want of moisture. Pure sands are practically useless for this very reason, and although, as we have shown in the case of feldspar or mica, some plant food may be present, it may not be available unless other physical constituents of a fertile soil are present in sufficient quantity.

In a gravelly soil the particles of the original rock are larger and more varied in size, although constantly decreasing in both size and quantity as well by the wear consequent upon continuous tillage as by the action of the elements. Stones have the property, and it is a useful one, of warming a soil, but where they are of large size they hinder vegetation and diminish the size of a crop. For this reason they are often picked off and carried away. By the removal of stones the percentage of true soil or

mould is increased with advantage.

LIMESTONE.

Limestone, which is not often pure, may be described as carbonate of calcium, or carbonate of lime. It supplies one of the most

valuable of soil constituents—lime. When burnt the carbon is driven off and its place is taken by oxygen. Quicklime, as it then becomes, is scientifically known as oxide of calcium. Slaked, by the addition of water, it becomes hydrate of calcium; left exposed to the air, carbon is absorbed, and it reverts to its original condition of carbonate of calcium. It is a curious fact, but to the majority of the occupiers of soil, lime in any condition is lime; in other words, they accept it and use it for their purpose whatever that purpose may be, whether it is in its fresh, newly-burnt condition, when it is highly caustic and capable of rapidly decomposing vegetable matter, or in its last condition when it is little if any better than chalk. For all practical purposes lime is of far greater value when it is perfectly fresh, and in this condition it is mixed with soil in a very well-known form and distributed upon the land. To allow it to remain exposed to rain and air if it is required for land dressing is to pay for it at the lime-burner's price instead of at the price charged by the owner of a chalk pit. Lime is a food for plants. It is present in all plant life, and vegetation is practically impossible without it. Its alkaline action is of great value on sour soils, which are sweetened in each Plants of the better class are encouraged to grow, while those which flourish best in an acid medium are discouraged and die off. It has powerful influence in attracting moisture, and may for this reason be used on dry soils with advantage. Its influence upon the organic matter of soil is well known. By its powerful decomposing influence it liberates the ammonia, which is at once available to the growing plant. A mixture of partially decomposed short manure with quicklime will immediately have the effect of liberating ammonia, which is palpable to the senses of the person making the experiment. It is extraordinary how small the quantity of lime is in some fertile soils, where it is present to the extent of no more than from 1 to 3 per cent. It materially assists in improving the physical composition of clays and sands, and for this reason it may always be used with advantage if it can be obtained at a moderate cost. It is a strange fact that although limestone may be present below the subsoil yet the surface soil may of itself be poor or deficient in lime. In many soils it is extremely abundant, and the same remark applies to plants which, like those of the leguminous order, are unusually rich in this mineral constituent.

HUMUS.

Humus, says Wolff, is a product, not an essential soil condition. Practically it is decayed vegetable matter. The scientist already named declares that humus cannot now be considered as an essential and indispensable nutritive food for the majority of plants, especially of those which are usually cultivated. He shows that this fact is

proved by the possibility of obtaining normal and complete development in a medium entirely deprived of humus, and he brings nature forward to support his argument, for it is no uncommon thing to see plants of a lower order growing upon hard stone, flowers upon brick walls, and trees upon rocks. Humus is gradually accumulated in most soils, and in spite of the continual crops which are raised these soils go on progressing in richness in this property. Beneath an old turf there is often an accumulation of humus so rich in fertilising properties that, broken up, the soil would produce successions of crops almost equal to the virgin land of our colonies. English gardens, too, which have been liberally manured year by year, and especially where leaf mould has been added for the benefit of special crop, the humus is present to such a large extent that, as Sir John Lawes has shown, the soil would provide nitrogen for plant growth for a very considerable period. As the humus of a soil gradually decomposes, it liberates nitric acid and ammonia, together with other constituents for the annual consumption of plants. these materials are among the most valuable and most necessary of all soil constituents, the presence of humus, where decomposition is regular and consistent, is of the greatest value, for the food supply it affords is regular and consistent. The decomposition of the humus of a soil may be hastened or retarded by skilled management, bearing in mind that heat, air, and water have the effect of hastening it, especially when assisted by the influence of lime. Wolff says that the most marked advantage resulting from the use of humus resides in the extremely favourable influence which it exercises upon the physical properties of soil. In convenient proportion it indicates a physical constitution which assures the success of crops in the highest degree, the best utilisation of manure, and makes generally possible a profitable and active cultivation. Humus diminishes the tenacity of clays, rendering them permeable to heat, air, and water. Humus also prevents the damage communicated to superficial soils by heat; it assists the penetration of superabundant water in the subsoil, and the ascension from the subsoil of moisture during periods of drought, accelerating the disaggregation of the elements of the soil, in other words the dissolution of matter providing plant By increasing the proportion of humus, sandy and chalky soils acquire greater consistence, they are dried less easily and preserve for a greater length of time that condition which is so favourable to the absorption of the nutritive elements of the air, and of all feeding matters in general, by the plant in full growth. When humus is in excess it destroys the physical condition of a soil, which becomes cold, wet, and spongy. If the water present is stagnant an acid is formed, which is unfavourable to the prosperity of cultivated plants, but which favours the growth or development

of weeds or plants of a lower order, such as are commonly seen in wet, marshy, or boggy districts. An inspection of a peat farm such as that in North Lincolnshire where peatmoss is dug for sale is instructive from this point of view. To a considerable depth living peatmoss is found, but under no condition would it be possible to convert soil of this kind, which is a mass of vegetable life, into a fertile soil. Like the sand of a desert, it is practically composed of There are peat soils, however, which are cultivated, one material. but, although undecomposed, the organic matter may be in excess. There is also present sand and decomposed matter which gives them The surface may produce vegetation, even the character of a soil. grass of a low order, but nothing can be done to improve it and to enable it to grow more luxuriant crops without the assistance of liberal cultivation, lime, and manure. Under no condition is cultivation possible where water is present. Draining is the first necessity of all wet soils. Humus contains a large proportion of carbon and combined nitrogen, but the nitrogen, the most valued of all fertilising constituents of soil, is useless until by decomposition and nitrification it has been liberated. We may take it for granted that in peaty soils a large amount of fertility is locked up.

We have already referred to what may be termed the physical constituents of the soil, constituents which may be again subdivided into the elements of which they are composed. Evidence has been adduced in the Rothamsted experiments showing the actual weight of these physical constituents in a given acre of land, taking the first nine inches of the soil as representative of their respective proportions. The field in which the experiment was made had been down to grass

for nearly thirty years.

ROOTS, STONES, FINE SOIL, AND WATER IN GRASS LAND.

	Tons.	Per ent.
Roots	4.6	3
Stones	403.7	26.9
Dry, fine soil	852.2	56 7
Water	242.5	16 1
	1503.0	100.0

It is true that in this field the stones were present in a higher proportion than in any of the ploughed fields on the Rothamsted property; nevertheless the proportion of stones in rich pasture land, as shown by these figures, is extremely large, much larger than would be supposed by a cursory examination of the soil. It will be remembered that the value of stones to plants is extremely small if regarded from the point of view of their food supply. Undoubtedly they are subjected to the same action of air, rain, and frost as the primitive rocks, in addition to which they must be upon all

arable soils in some degree affected by the constant system of tillage employed. If stones were ground to powder some of the constituents of which they are composed would be much more easily utilised by plants. As it is, stones, like the rocks beneath them, may enclose mineral fertilising properties which are not available, necessitating the purchase and distribution of artificial fertilisers, brought perhaps from a foreign country. The quantity of food in a soil is said by Wolff to determine its fertility when regarded from the point of view of its solubility and the relative proportion in which it can be assimilated by plants in a given time. Its dissolution in a natural soil and its passage into the plant is in the first place the result of disaggregation, in other words, of the permanent influence that moisture and the elements of the air, especially oxygen and of carbonic acid, exercise upon the soil itself.

MINERAL CONSTITUENTS OF SOILS.

Six mineral substances are found in all plants. These are lime, potash, magnesia, iron, sulphuric acid, and phosphoric acid. either of these materials is absent from a soil it cannot be termed fertile. In addition to these, however, nitrogen is also essential, and this is present in every soil containing organic or vegetable matter. To some extent it can be said that it is present in all soils, for a small proportion is conveyed to them by rain. In addition to the constituents we have already named, others are usually found in the ash of plants, although some chemists have expressed the opinion that they are not absolutely essential to their growth. These are silica, soda, alumina, and chlorine. It is a curious fact that of the essential constituents there are four which are usually found in all systematically cultivated soils in sufficient abundance. These are lime, iron, magnesia, and sulphuric acid. As we have seen, lime is not always present to the extent that it ought to be. The soils deficient in lime are few in number, but it is a material so easily and cheaply obtained that it does not often occasion the agriculturist any serious trouble. We have seen that the nitrogen of soil has been originally obtained from the atmosphere. On the other hand, the mineral constituents are derived from the primitive rocks, and under almost all conditions where soils are subjected to tillage their proportion is being increased or developed by the action of water and air, for the disintegration of all exposed rocks, though it may be slight, is regular, and perhaps we may add systematic. Soils of a sandy nature usually contain the smallest quantity of mineral food constituents, as of organic matter, providing nitrogen; on the other hand. peats, so largely composed of organic matter, contain a large proportion of nitrogen, even though it be in an almost unobtainable form. Clays are usually provided with an abundance of potash and

phosphoric acid, although when it comes to figures, this abundance, relative as regards plant life, is seen to be extremely small. fact that soil contain such small quantities of these important constituents indicates that it is as much a storehouse of food as it is a vehicle for the growth of plants, through which their roots ramify in all directions in search of the materials they require. It is the oxygen of the air which plays the important part of transforming or decomposing rocks, just as it assists in the germination of seed and in the growth of I lants which absorb it. We must not forget, however, in dealing with the soil, that plants do not depend for food. upon soil alone. They are built up to a very large extent by the aid of the carbonic acid of the atmosphere, which is absorbed by all green-leaved plants. If a given weight of dried plants-grass, for example—be burnt and the ash weighed, it will be found that by far the largest portion has returned to the atmosphere. Thus the mineral constituents of wheat amount to only from 1.2 to 2 per cent in the grain, and of barley from 2.3 to 3.8 per cent. Similarly in the straw of cereals, the mineral constituents of the soil are present to the extent of from 4 to 18 per cent. In roots the dried bulb of the turnip contains from 6.8 per cent, while in the dried leaves there are only 14 to 20 per cent; whereas in the bulb in its natural undried form the percentage of mineral matter is only from 6 to 8 per cent, and in the leaves 1.5 to 2.9 per cent. Even in wood there are few instances, as regards our common timber trees, in which 1 per cent of mineral matter is present, although considerably more is found in the leaves and the seed. The two most important constituents of plants, then—nitrogen and carbon—are taken from the air, and in dealing with a fertile soil, therefore, we have to remember that it must contain the essential mineral elements required by plants and organic matter for the provision of nitrogen; that its physical nature should be consistent with the necessary tillage and with the development and utilisation of its food constituents; that it should be drained either naturally or artificially; sufficiently irrigated by rain, and warmed by the sun, which is not the case in soils on northern sides of mountains in particular. Johnston, in speaking of the discovery of the existence of the mineral matter of plants, says it "establishes a clear relation between the kind and quality of the crop and the nature and chemical composition of the soil in which it grows. It demonstrates what soils ought to contain, and therefore how they are to be improved; it explains the effect of some manures in permanently fertilising, and of some crops in permanently impoverishing the soil; it illustrates the action of mineral substances upon the plant, and shows how it may be and really is in a certain measure fed by the dead earth. Over nearly all the operations of agriculture, indeed, it throws a new and unexpected light." It does

not follow that soil of the same quality will or can yield the same results under dissimilar conditions. A warm, rich loam in Scotland might be compared with a soil of identical composition in the South of Italy, but it could not be expected that the produce of these two soils would be the same. The superior tillage of the Scotch farmer might extract from it a superior crop to that obtained by the Italian farmer upon his less advanced system. Much, however, depends upon In one country temperature might possibly be 10° to 15° Fahr, higher during the growing season of summer, and in the other the rainfall might be much more considerable. In one case heat might be deficient, and in the other rain. Crops, however, are affected by light as well as by climate. We have seen farms upon the hillside in Derbyshire which have been laid down to pasture in consequence of the continued failure of grain crops, owing, as we believe, to the deficiency of sunlight. On the southern side of deep valleys the sunlight is very deficient, and as the absorption of carbonic acid and consequently the growth of plants depends entirely upon the influence of the sun, it follows that where its rays do not penetrate, or penetrate only for a fraction of a day, the result cannot possibly be satisfactory. We have referred to the constituents of soils which are essential to the growth of plants, and to those which are generally found in plants by the analyst. Let us take a few examples from Dr. Wolff, and give the leading constituents of a few representative materials produced or used on the soil, per 1,000 parts.—(See table, page 410.)

It will be seen that in the products of the soil the leading soil constituents are present in every instance, that in animal products produced from plant growth upon the soil the most important mineral constituents of soils are also present, and that in manure produced by cattle every constituent is present. Therefore when such manure is returned to the soil it replaces what has been removed from it. Artificial manures, unless specially mixed, do not contain all necessary constituents, more particularly those which are most economical in use. Thus we have shown that phosphoric acid and lime are present in a phosphate, that nitrogen and soda are abundant in nitrate of soda, and potash, magnesia, and sulphuric acid in kainit, which is a material obtained from the

earth itself, and used as an artificial manure.

It has frequently been observed by persons who have not taken the trouble to ascertain facts that the continual sale of milk by a farmer results in the depreciation of the soil he crops. The figures we have given will enable anyone who desires to take the trouble to calculate for himself the actual average quantity of each important soil constituent, together with the nitrogen which is removed in the milk of a cow or per ton of milk per annum; and if these

(Continued on page 411.)

	Water.	Nitrogen.	Ash.	Potash.	Soda.	Lime.	Magnesia.	Phosphoric Sulphuric Acid.	Sulphuric Acid.	Silicic Acid.
Wheat	144	20.8	16.8	5.5	ŵ	÷	5.0	4.9	0.1	0.3
Clover in flower	800	4.8	13.7	4.4	÷	4.8	1.5	1.3	.4	4.
Beans	145	40.8	31.0	12.9	÷	1.5	2.5	12·1	1.1	0.5
Pasture grass	782	7.5	21.1	8.1	÷	5.6	1.2	1.9	7	4.1
Potatoes	750	3.4	9.5	5.8	တဲ့	ŵ	÷	1.6	9.	·
Swedes	870	2 1	7.2	3 5	4.	ç	άĵ	1:1	1.	·
Oat straw	143	5.6	9.19	16.3	5.0	4.3	2.3	5.8	2.0	8.87
			AN	ANIMAL PRODUCTS.	oucts.					
Milk	875	5.4	7.5	1.7	4.	1.7	ç;	3.0	0.1	:
Beast (living)	597	9.97	46.6	1.7	1.4	20.8	9.	18.6	:	0.1
Sheep	591	22.4	31.7	1.5	1.4	13.2	4	12.3	:	0.5
Pig	528	90.0	21.6	1.8	Ġ1	9.5	4.	8.8	:	:
				MANURE.	5					
Fresh dung	750	212	3.9	1.8	4.5	1.3	4.9	1.2	1.0	1.3
Night soil	772	198	10.0	10-9	2.5	1.6	6.5	36	8.0	4
Coprolite phosphate Per cent.	3.7		:	:	:	43.0	:	8-92	:	:
Nitrate of soda Do.	5.6	15.5		:	35 0	6 7	:	į	<i>L</i> .	:
Kainit Do.	20 8	:	:	. 16-9	:	:	- 18.5	:	346	:

materials are priced at their market value, an almost accurate idea can be obtained as to the money value of the fertilising matter which has been removed from the farm. It is a curious fact that the same reference has not been made to the removal of cattle, sheep, pigs, or crops, although in each case there is a similar loss, sometimes to a much greater extent, of valuable properties. The following figures, based upon another and lower analysis, show the quantity of nitrogen, phosphoric acid, and potash, the three most important constituents of plant food, which are removed in a ton of each kind of dairy produce:—

			Phosphori	ic	
	Nitrogen	1.	Acid.		Potash.
	lbs.		lbs.		lbs.
Butter	. 2.7		1.58		1.0
Cheese	. 112.0		17.85		2.15
Whey	. 2.72		1.84		5.67
Milk	. 12.02		4.50		2.55

No calculation is necessary to show that by the purchase of an extremely small quantity of artificial manure, or of cake or corn which is intended for the consumption of the cows, much more fertilising matter coming under these three heads will be returned

to the soil than has been extracted from it.

Phosphoric acid which, next to nitrogen, is, commercially speaking, of the highest value, is found in some varieties of guano, in all bone, coprolite, shell, and mineral phosphate manures. Although, as we have seen in the above table, it is present in every kind of plant, some plants respond much more readily to it than others, and for this reason it is given as a profuse dressing to root crops, turnips, and swedes in particular. The fertility of a poor soil is especially improved by the employment of phosphatic manures in the growth of roots, which are afterwards consumed by sheep folded upon them, the animals at the same time consuming a purchased food such as cake or pulse, which is rich in nitrogen. Thus the soil is enriched for the use of the succeeding grain crop by both phosphate and nitrogen, both of which are thereby enabled to perform a double duty, the phosphates first feeding the roots and then the cereal, and the nitrogen first feeding the sheep through the medium of the albuminous matter of the cake, and next the grain crop. When we are dealing with the capacity of a soil it is essential to remember not only what its primitive nature may be, if it is primitive in character, but what it has been converted into by artificial means such as those to which reference has been made. Crop production is impossible without phosphates, but fortunately they are present in sufficient abundance in many of the heavier classes of soil, although high cultivation is necessary on the part of the occupier of the soil to liberate them for the use of the plant.

Potash is the third important material which is supplied to the soil by artificial means. Like phosphoric acid, it is present in the heavier soils in considerable quantities, and as it is abundant in all farmyard manure and in all vegetable matter ploughed into the soil, it is seldom that there is a marked deficiency. It sometimes forms one-half of the ash of plants; thus it forms more than one-half of the ash of parsnip roots, nearly one-half of the ash of peas, it is abundant in straw, in the leaves of bulbs, in all leguminous plants, and curiously in the nettle.

Magnesia usually accompanies lime in a soil. It forms a large percentage of the mineral constituents of marl, and in some rocks it is present to the extent of from 10 per cent to 20 per cent. In rye bran there are 11.4 parts per thousand of magnesia, in cotton cake 10 parts, and in the Stassfurt salts, largely used on account of their

richness in potash, it forms a very considerable proportion.

Oxide of fron may be recognised as the red rust which forms upon iron which has been exposed to the atmosphere for some length of time. It is the soil constituent which has so much influence in giving a red tint to the arable land of many of our midland county farms. It is also recognised as a constituent which assists in retaining the potash, phosphoric acid, and ammonia in a soil. Humus and clay have the same valuable properties as regards the potash and ammonia.

Soda is essential to some plants, those of a marine character in particular; but it is not essential to others. Soda passes to a much more considerable extent into some plants than others, and it is present in some parts of plants to a larger extent, and in others to a smaller extent. Thus it forms 6.9 parts per thousand of vetch straw, and only 2.1 per thousand of vetch grain. In clover in flower it is present to a large extent, but only to a small extent in

clover in bud.

Sulphuric acid is present in all soils in the form of sulphate of lime. It will be recognised as vitriol when in a free and liquid

form. It is necessary to all plants.

Silica was at one time believed to have considerable influence upon the rigidity of the stems of plants, as, for example, of the straw of cereal crops. It is now admitted that it is not really indispensable to many plants, although it is believed to affect their ripening.

It may be supposed—the chemist having by his elaborate system of analysis performed so great a service to agriculture, as we may have learned from the foregoing remarks—that analysis of soil is essential for the purpose of showing the grower of crops what constituents are absolutely deficient or requisite; but, as a matter of fact, although the chemist can do a great deal, it is not possible for him to show with any degree of clearness whether a soil is fertile or

not in the sense that it will produce crops. Fertilising matter essential to plants may be present in sufficient abundance, but it may not be available for one or more of the reasons which have already been advanced. Nor if the chemist could overcome this difficulty would analysis always prove satisfactory; on the contrary, it might prove extremely misleading. Neither one nor many samples of soil from a particular farm, or even from a particular field, always represents the average character of that field, which may vary both in depth and quality. A soil is understood better by those who take the trouble to master what has been discovered and explained by chemical science, and by the application of plain common sense to scientific teaching, than by an absolute reliance upon analysis to the exclusion of the results of practice.

The absorbent property of a soil is in proportion to its richness in clay and humus, and their composition at the time. Liquid manure may be filtered through a porous soil of a particular character, when the liquid will come out clear and without smell. This points to the fact that the chief solid constituents of the liquid are retained, although a portion of the magnesia may pass away, and perhaps a still larger portion of the lime. It has been shown by Sir John Lawes and others that a porous soil is deprived of a large proportion of its fertility in some cases, as when it is laid up by ploughing, and when it is exposed to heavy rain. Under such conditions, more readily than at any other time, the soluble properties which are valuable

may be lost.

FERTILITY.

Soils both acquire or accumulate and lose fertility under certain conditions. Fertility is accumulated, for example, by good tillage, constant manuring, and constant cropping. It is a curious fact that where farming is good, persistent cropping results rather in the accumulation of fertility than in its dissipation or exhaustion. tiller recognises that the larger the quantity of manure he uses, and the more often he cultivates, the better will be the crop he obtains. and the better the crop the larger the quantity of root, which itself contains fertilising matter, and of food for consumption on the land. Direct manuring with solid or liquid manure, sheep feeding upon roots or grass, and at the same time being fattened with the assistance of cake or grain, and cattle fed upon the land for the butcher—all these assist soil in acquiring fertility. The same remark applies to the ploughing in of green crops, often grown in the autumn or winter season with the object of retaining the soluble properties of the soil, which under other conditions would be lost in the drainage water. The growth of leguminous crops has also, it has now been discovered, a very marked influence

upon the acquisition of fertility, for in addition to the property of absorbing carbonic acid, which all green plants possess, the leguminosæ are able to obtain free nitrogen to such an extent that after the removal of a crop of clover, for example, a field may be richer in nitrogen than it was before the clover was grown, and this in consequence of the presence of their roots in the soil. When, therefore, we deal with the capacity of soils to grow particular crops, we must remember that they are very much what man has made them, and that they can be adapted under certain conditions to grow diverse varieties of plants which, without the application of

science to practice, they could not do.

The fertility of soil is exhausted by bad management and by carelessness with the manure which is to be returned to it. Manure, like soil, contains properties which may be removed by rain; thus, if the liquid produced by cattle is carried by drainage into a vard and there washed away by the rain it is entirely lost. On the other hand, if it is conveyed to a cistern in which it is allowed to ferment there may be a considerable loss of nitrogen. If the solid manure, instead of being packed in a heap under cover, is exposed, it also may be damaged so materially that by the time it reaches the land no more than one-half of its original fertilising properties remain. The losses on the farm are often greater in wet than in dry seasons from these causes. spite of the fact that nature supplies through the rain and the atmosphere a portion of the fertilising matter of the soil, there is nevertheless a loss when, in addition to what we have already mentioned, the chief crops of the farm are sold, and where no stock is kept to consume what is unsaleable. If leguminous cropping, as we have observed, results in the increase of nitrogen even though the crop may be carried away, it follows that if that crop is consumed the increase is still more considerable. Fertility is exhausted then by bad farming, by the careless management of manure, and by the In some districts like those surrounding the absence of stock. popular towns of Lancashire where the farms are small, the covenants in the leases or agreements severe, and the stock kept considerable, there is a consistent increase of fertility which is almost entirely to the advantage of the owners of the land. We have inspected many of these farms, where the sale of the one great crop—hay—is prohibited, where in fact nothing can be sold but milk and the cattle themselves when they are of no further value for milk production. For the purpose of increasing the yield of milk and of fattening cattle these farmers are in the habit of purchasing enormous quantities of provender, the manure from which is distributed upon the soil, producing the splendid crops of grass which enable the owners to obtain such high rent.

years ago we had the advantage of inspecting a farm in the South-West of France, the property of a distinguished scientific agriculturist. The land of which the farm was composed was originally sand with a subsoil of clay. It grew an abundance of those uncultivated plants which are seen upon land in its unimproved or natural condition. Knowledge of the capacity of a soil composed of a mixture of sand and clay, and of good management suggested to the present owner that its acquisition might be of considerable benefit to himself. It was purchased at an extremely low price for those days, and although unfit at the time to produce any cultivated plant, it now carries enormous crops of all kinds, the bulk of which are consumed by a very large head of valuable stock. Here it is one perpetual system of accumulating fertility. Crops are grown in succession with a twofold object—the feeding of stock and the production of milk, and the further improvement of the soil through the manure returned. Heavy and extensive cropping enables the owner to keep a large head of cattle, to feed them well, and to obtain a maximum percentage of produce from them. The heavy feeding in its turn results in a heavy yield of manure, and in this way (artificial manure being added) the practically barren sand of fifteen years ago has been transformed into a thriving, nay, a luxurious property. If anyone had been asked at the time, assuming that they were competent to advise, to recommend a crop suitable to the soil, there might have been a serious shake of the head and advice intimating that it had better be left alone. There are in every country tens of thousands of acres of soil, almost infertile, which might be converted into fertile properties by the aid of present scientific knowledge. In Germany sands and peats of almost a barren character are now under profitable cultivation, and in some cases details have been published showing how this work has been accomplished. Lime has been employed in the decomposition of peat. To this phosphoric acid, and if necessary potash, has been added, and crops have been grown and consumed upon the soil, thereby adding a form of organic matter which was advantageous at the outset, and returning the fertilising properties which had assisted in their growth. On sands leguminous crops, grown by the aid of phosphatic manures and potash, have obtained free nitrogen and have been either consumed upon the soil or ploughed in to its immense advantage. A crop of two tons of clover hay removes in the form of mineral matter 83lbs. of potash, 90lbs. of lime, and 24lbs. of phosphoric acid, in addition to 102lbs. of nitrogen. Now. assuming that a soil, such as an almost barren sand, is enabled by the means we have indicated to produce such a crop, it is in its first year enriched with this large quantity of nitrogen plus an almost equal amount per acre present in the roots. This is actually more

than three times sufficient to provide the nitrogen required to produce a thirty-bushel crop of wheat, which is the average yield of this country, or a forty-bushel crop of barley. The phosphoric acid and potash, too, assuming that they are almost entirely returned to the soil if fed off by sheep, or entirely returned if ploughed in, would also be sufficient to produce either of these grain crops leaving a balance, and in the case of potash a considerable balance for the use of future crops. There is no end to the improvements which may be effected in soils by a thorough knowledge of their management and the system to be adopted in their cultivation.

THE INFLUENCE OF WATER AND HEAT.

It has been stated, we believe by Schübler, that cultivated plants, whether grown in the tropics or the temperate zone, obtain an equal amount of heat between sowing and harvest in spite of the great difference in the period of growth. In tropical climates the number of rainy days is small but the rain which falls is considerable, whereas in temperate climates like that of Great Britain, although the number of days upon which rain falls is much larger, the rainfall itself is much smaller in quantity; in other words, while the rain decreases the further we get from the equator the number of rainy days increases. The rainfall in this country depends very largely upon the district. It is greater upon the western than upon the eastern coasts. It is much greater in mountainous districts than upon the plains. In the West of England the rainfall averages from 30 to 45 inches per annum; whereas in the eastern counties it varies from 20 to 38 inches. In mountainous districts it often exceeds 100 and has been known to reach even 150 inches. The amount of rainfall in the western part of our country depends upon the influence of the Atlantic Ocean, over which the passing winds are charged with a large excess of humidity as compared with the winds in the opposite quarter. In a statement made by the Registrar General many years ago, it was remarked that an inch deep of rain on an acre yielded 226,225lbs., or nearly 101 tons; thus for every hundredth of an inch of rainfall one ton of water falls upon every acre. We have personally tested this fact in estimating the quantity of rain which fell in a particular manure yard in one year. It amounted to 900 tons, a quantity so enormous that we were almost disposed to wonder whether any fertilising property remained in the manure, much of which was more or less exposed to this deluge. Liebig has shown that under certain conditions a piece of ground little more than half an acre in extent annually receives through the medium of rain upwards of 80lbs. of ammonia, equivalent to 65lbs. of nitrogen, which is a larger quantity than is found in a ton of hay, the produce of an average acre of land, so that we must look upon

the rainfall not only as a great and valuable medium for the conveyance of the soluble matters of the soil to the plant, but as itself furnishing a most important increment of the most valuable of all

fertilising matters.

Valuable as rain is upon a well-drained soil, or upon a soil which is sufficiently porous to allow it to pass through, wet land in which water remains stagnant is an extremely bad property. It will not under any conditions grow useful plants, although it may be covered with vegetation of an inferior and almost valueless nature. It is extremely bad for live animals, some of which acquire disorders through the consumption of living organisms which thrive upon the plants growing upon such soils, or serious disease of the feet, which is equally disastrous where thrift is essential. only is wet land uneconomical from its inability to grow crops and feed stock, but where it forms part of an occupation it entails a certain amount of labour which, if not thrown away entirely, adds considerably to the expense of cultivation. In normal soils rain only passes through under certain conditions, but nature has provided that when no rain appears the surface soil shall be watered from the stock of moisture beneath. This is accomplished by what is known as capillary action, and as fast as this action takes place evaporation goes on during the day, although moisture may be absorbed during the night. Bad as stagnant water is upon undrained soils, it is nevertheless the custom to irrigate land either by a system of drainage or by actually flooding it with water. The water, however, used under this system, unlike rain water, is not charged with ammonia or nitric acid, but it may be and usually is charged with a certain amount of organic matter which has some value to plant life. Professor Church has laid it down that irrigation is practised to make up for the irregular seasonal distribution of rain, or for a local deficiency of rainfall. Sometimes, he says, a particular crop is irrigated because the plant is of an aquatic or semi-aquatic nature, or to encourage early and rapid growth by the warmth of the water, or by the dissolved plant food which it contains; and he remarks that land may be enriched and its level raised by means of the deposit from the water. This last remark applies with great force to the warped lands of North Lincolnshire, where after several floodings from the water of the Humber a deposit is left, sometimes equal to a foot in thickness. This one fact suggests again how the character of a soil may be altered by a physical act. In this district, for example, we have seen soil which had practically little or no agricultural value, but which was so immensely improved that its yearly value was increased by more than 100 per cent in consequence of its ability to grow almost any kind of crop.

The writer we have referred to attributes the usefulness of irrigation of water meadows to—

1. "The temperature of the water being rarely less than 10° Fahr. above freezing, the severity of frost in winter is thus obviated, and the growth especially of the roots of grasses is encouraged.

the growth, especially of the roots of grasses, is encouraged.

2. "Nourishment or plant food is actually brought on to the soil, by which it is absorbed and retained, both for the immediate and future use of vegetation.

3. "Solution and redistribution of the plant food, already present in the soil, occurs mainly through the solvent action of the carbonic

acid gas present in a dissolved state in the irrigation water.

4. "Oxidation of any excess of organic matter in the soil, with consequent production of useful carbonic acid and nitrogen compounds, takes place through the dissolved oxygen in the water, sent on through the soil where the drainage is good; and

5. "Improvement of the grasses, and especially of the miscellaneous herbage of the meadows is promoted through the encouragement of some, at least, of the better species, and the extinction or reduction of mosses and of innutritious weeds."

On the plains of Lombardy irrigation is practised with ex-In some of our Australian Colonies land traordinary results. containing abundance of fertilising matter remains almost useless for want of water, and although a system of irrigation has been inaugurated upon a large scale, yet as compared with the size of the country requiring irrigation it is but a very small affair. In parts of Central North America, both in the United States and Canada. there are millions of acres of land which will without doubt eventually carry abundant crops, but which are now either quite idle or growing natural grasses without cultivation in consequence of insufficient rain. It is next to impossible to deal with the soil from the point of view of what crops it will grow without reference to climate and other physical conditions. If fertility depends upon the presence of plant foods in an available form, the power of the soil to grow crops depends upon the rainfall and the temperature. As we have shown by reference to the valleys of Derbyshire, the influence of the sun is all-important. recognised by those who have not made a study of science that land situated on a southern slope is in the most advantageous position. It may be remarked that under such conditions land is daily in a perpendicular line with the sun during a great part of the year, just as the land upon a plain would be with the sun overhead, and it is because it obtains the whole advantage which the rays of the sun afford that its position is so useful. Schübler has remarked with truth that a soil dark in colour and with small water-containing power is heated by the sun more quickly and more powerfully than

a lighter soil with greater power of retaining water; a soil, too, which can hold much water can absorb the most moisture when it is dry, whereas when it is moist it can absorb the most oxygen. The stiffer it is the more slowly it dries; the heavier the soil, too, the more heat it can retain. Stiff soils which contain much water are the coldest and the most difficult to manage. Here, then, further considerations enter into the question of the crop-growing power of the soil. According to the same writer the following soils have the capacity for containing water to saturation in the quantities given:—

Per cub. ft.

Per cub. ft.

1.0	i cuo. iv.	Τ 6	ar cuo. r
	lbs		lbs.
Silicious sand	27.3	Pure grey clay	48.3
Sandy clay	38.8	Garden mould	48.4
Lime clay	41 4	Arable soil	40.8
Brick clay		Humus	50.1

We have remarked upon Boussingault's statement that the duration of vegetation appears to be in the inverse ratio of the mean temperature, so that, he says, if we multiply the number of days during which a given plant grows in different climates by the mean temperature of each climate we obtain numbers that are nearly equal. Doubtless this fact has some bearing upon the curious difference between the climate of England and of parts of the United States such as Dakota, and of Canada such as Manitoba—both great wheatgrowing states—which are infinitely more severe than the climate of Great Britain, although parts of Great Britain are much further distant from the equator. In both of these districts the winter season is of six to seven months' duration, the temperature falling on some occasions as low as 50' below zero. On the other hand, during the very short summer, with its light and intermittent frosts, the heat is intense, while the period devoted to the growth of wheat instead of being some ten months, as with us, is reduced to about four months. A fact like this has infinitely more bearing upon the capacity of soil to grow crops than the composition of the soil itself, which in the cases in question is altogether in favour of the American The colour of soil is usually owing to the presence of some important constituent. Oxide of iron influences the colour of red and yellow soils, chalk and light-coloured sand of the whiter soils, vegetable mould of the black soils, oxide of iron and abundant vegetable matter influences the brown soils; and as colour has a bearing upon heat the composition from this point of view is therefore a matter of some importance.

WHERE CROPS GROW.

THERE is, perhaps, no variety of cultivated soil in Great Britain which does not grow every variety of crop known to British agriculture. It is probably true that, given a suitable climate, any

crop can be adapted to any fertile local soil. Grain crops have their favourite districts, but it is the climate as well as the soil which renders these districts suitable. If we read the reports of the skilled men who have examined the various districts of some of our colonies we invariably find, as we subsequently find in the practice of the settlers, that it is climate which exerts its influence in adapting a soil to cultivation. The tropical sun which pours its rays on South Africa and parts of Australia is robbed of much of his undesirable heat when we approach the higher lands or the maritime districts, where so many kinds of crops are grown with success. At home we naturally look to the rich lowlands of the west where the rainfall is the heaviest for grass, and the eastern counties which are so much drier for grain crops. Nevertheless, both grass and grain are grown successfully in both districts. The mangel is universally grown in the south and the midlands, in soils of all classes, but it is not attempted upon the higher hills on account of the diminished temperature or the want of depth in the soil or from both reasons. Similarly it is seldom found in the northern part of the country, although it can be successfully grown in most years. Where, however, there is risk the farmer adopts some other plant instead. because he cannot afford to lose a crop. It is, however, not the soil but the climate which is responsible for the risk. The soil of Great Britain is suitable in almost all districts for the cultivation of maize, but our climate is too severe and our summers too short to ripen the crop, although maize may be grown as a green crop five years out of six with perfect success. We cannot produce tropical plants in spite of the suitability of our soils; and it would be folly to attempt to grow tobacco or wine, tea or coffee, sugarcane or rice, because circumstances do not combine to enable us to do so with success. We must remember, then, that as regards plant life in general climate is the factor which it is necessary to discuss. We can make almost any soil suitable to almost any crop we need, but we cannot alter climatic conditions unless it be upon a small scale and under glass, or locally by drainage under certain recognised principles. There are some crops which, fortunately for man, grow successfully through a very wide range of temperatures, succeeding alike in the northern districts of Scandinavia and America and as far south as the Persian Gulf and the Red Sea, but the results are not equal to those obtained in temperate climates like our own. The black vegetable soils of Russia and Dakota are rich enough to produce abundant crops of almost any desirable kind of plant without the addition of manure, but we cannot alter the severity of the climates in which they are situated, consequently the occupiers are limited to a small number of plants, few of which can be grown without risk. British soils are of almost every kind, but cultivated crops are

practically limited to the lowlands and the slopes of the lower hills. because of the unsuitability of the climate in the higher ranges. The plough has entered the soil of the Cotswolds, parts of the Southdowns, and the wolds of the East Riding, but there are huge areas on the millstone grit, the mountain limestones and the Cambrian hills. of Derbyshire, Yorkshire, Cornwall, Cumberland, and Wales in particular, where cultivation in the form of tillage is impossible. Yet on almost all the higher ranges of our mountain systems there is sufficient plant life in the form of herbage to feed sheep, which seem to be the national production of the uncultivated surface of these regions. It often happens that the nature of the soil can be recognised when the formation upon which it rests is known, but it may happen that land upon the most desirable formations, such as the red sandstone, is inferior from persistent bad farming. Geological formation, however, is not always responsible for the soil of a given field, or even farm or district, which may be composed of glacial drift or alluvial deposit.

Having referred to the influence of climate into which light, and consequently the length of the day, enters, we may refer in detail to

those crops which are necessary to the people.

Wheat will not ripen in our climate when it is sown at elevations of over a thousand feet. In North America, where, as in Dakota, Manitoba, and Assiniboia, the winters are long, six to seven months, and extremely severe, wheat is sown in spring, and often has no more than 100 to 120 days in which to ripen. In "Stephens's Book of the Farm" remarkable figures are quoted, in which it is shown that in Venezuela the same crop ripens in half the time necessary near Edinburgh, thus—

	Period of Growth.		Ave age Temperature.		
Venezuela	92	×	75.6°	=	6955°
Pruxillo	100	×	$72 \cdot 1^{\circ}$	=	7210°
Alsace	137	×	59 · 0°	=	8083°
Paris	. 160	×	56 · 0°	=	8960°
Edinburgh	182	×	47·4°	=	8625°

Thus, as we have remarked earlier, the degrees of heat necessary to ripen a crop are closely identical in countries of such different climates. It is quite possible that the actual difference shown may be in a measure owing to the existence of longer days, for growth is more rapid during sunlight, and maturity is consequently attained earlier. Extremes of heat and cold influence the yield of wheat, which is greatest in a mild climate, and yet quality is better in wheats grown in hotter climates than our own. Thus Californian wheats and the No. 1 hard grain of the States and Canada which ripens rapidly in great heat realise superior prices to the average samples of Great Britain. The straw of wheat is more

considerable in quantity in temperate than in tropical climates. Wheat is said to relish stiff soils, and unquestionably the heaviest crops are grown upon such soils, yet we have seen heavy crops grown upon sands which blow away when carelessly managed, but great skill was necessarily developed in their cultivation. It may be fairly said, therefore, that wherever a deep tilth can be obtained and manure provided, ordinary conditions being present, a wheat

crop can be produced.

Oats.—Like wheat, the oat is successfully cultivated in India, where frost is unknown, and in the North-West of Canada, where we have seen standing crops estimated at 100 bushels an acre. The oat thus grows over a very wide range of temperature, and it will flourish upon almost any cultivated soil. It is probably correct to say that oats are more productive in the colder than in the warmer climates, some varieties standing severe winters, others coming to maturity within the region of the midnight sun, where the season of daylight is short. In Great Britain, Scotland produces finer crops than England in spite of the greater severity of its climate. Europe as an example, we find that the oat is more favoured in the colder countries; hardly recognised as a farm crop in the Peninsula, it is raised in Russia, Norway, and Sweden, as far north as 65°. We have seen the crop harvested in Norway so late that it was drying upon poles in the short day sun when the succeeding crop was being sown beside it. Oats prefer such soils as alluvial deposit, which are so often situated in a moist climate, a condition congenial to their growth. This moisture they obtain in the mountain districts of Scotland on soils otherwise unsuitable to their cultivation. They are often grown where in consequence of excessive moisture they cannot be successfully harvested, but fortunately oat hay is a food admirably adapted to stock. The thin dry soils of the south—sand, gravel, chalk, and detritus—especially those of the home and eastern counties, are least suitable to this crop; but to them may be added the stronger London, Oxford, and Kimmeridge clays of the south-western counties, where grass is the chief produce. Wheat comes to us from almost all the agricultural countries of the world, but the limits of profitable oat cultivation are exhibited by the countries which export to us, Russia, Sweden, Germany, and North America, the two former countries sending over four-fifths of what we import.

Barley was grown by the ancient Jews, Greeks, and Romans, and it is to-day a plant which is grown for export in hot countries much more extensively than in cold countries. Nevertheless, as we import from twenty-two countries tropical and sub-arctic, it is clear that barley is also very tolerant in its climatic range. Barley grows with greater success in Lapland and Siberian Russia than

wheat, a fact which is perfectly comprehensible when we remember that it grows and ripens much more rapidly. In England we have reaped crops which have had but little more than twelve weeks in which to grow, a period quite consistent with the short summers of the northern countries. The rapidity of growth of the barley crop accounts for the fact that in some climates two crops may be taken in a year, while in others it grows at a very great altitude, as in the Alps and the Andes. This fact also reminds us that the vine, which cannot be made productive in the open fields of Great Britain, thrives within sight of the Swiss glaciers and at an altitude far higher than many mountains in this country. Here, again, climate plays its part. Barley prefers soil of a lighter character than wheat and oats. For this reason it is used as a descriptive term as applied to certain soils which are known as "barley soils." Strong loams and clays are not adapted for this crop, the lias, Oxford, and London clays are therefore unsuitable, but from thin chalks and gravels to the medium loams all soils are suitable, including drifts, green sands, and oolites, excepting the clays referred to. Barley is a crop which may be grown for quantity in the heavier class of soils, or for quality in the lighter.

Rye is the crop of Northern Europe, indeed it provides for the bread of the people in those parts of the continent where the soil is dry and of an inferior quality. Moreover, it ripens so much earlier than other cereals that its cultivation from this point of view alone is of high importance in some countries. Rye is rightly regarded as one of the most valuable of all the crops of the soil, for on the poor sands of Germany and parts of Scandinavia it is the only cereal upon which reliance can be placed, while it is said to be also grown within the Polar regions as high as 67° N. lat. Rye grows with success upon almost all soils, if we except clays. In this country, where it is little grown, it might advantageously replace wheat on the lighter gravels and sands, and considering the value of its straw this change might result in a pecuniary gain to the farmer. On loams it is not likely to be sown, because its yield and value is not

so great as that of the other cereals.

Beans are very largely imported into this country, but they are also largely grown upon the stiffer kinds of soil, which, like wheat, they prefer. It is an advantage to the grower occupying heavy land that he can grow three saleable corn crops in a rotation, and that, too, without excessively impoverishing the soil. The bean likes a tenacious soil, but although unlike most other plants it grows well upon such heavy land as the London and the lias clays, it thrives best upon the clay loams which, while providing tenacity are sufficiently porous to prevent water covering the plant, and rich to provide it with its necessary food. Beans are often grown on the

lighter soils—gravels, for example—and even the rich vegetable soils so valuable for potatoes and many other crops, but the crop is always either risky or troublesome, failing altogether, or, if a

successful plant, growing to haulm instead of seed.

The Pea, although belonging to the same order as the bean, has quite a different habit, but although the latter requires lime it is not so greedy as the pea, which revels on deep calcareous soil. A soil for peas must be dry, drained if it is not sufficiently porous, and it must contain a good supply of lime. The new red sandstone where lime is present provides an admirable soil, and the loams of medium texture are also most suitable. Clays and peats are avoided, but successful crops are often grown upon calcareous soils even though they possess a thin staple, and we have known them do well upon gravels. We may, however, take it that the medium rich calcareous

loams are best adapted to the crop.

Buckwheat is a plant which is not grown in this country so much as it might be. There are plenty of southern farms comprising soils of a most inferior character, which do not produce successful crops once in five years, which would grow admirable crops of buckwheat. In Eastern and in many European and American countries this grain is grown as a bread-stuff, indeed across the English Channel the inhabitants of many parts of the North of France grow it for that purpose to-day. Buckwheat is one of the few plants which will grow and prosper on soils which will grow nothing else, and for this reason it should receive more attention. The worn-out, impoverished gravel will respond to it, and equally upon poor sands may it be grown with confidence. Dry soils may also be included in its programme. On the other hand, wet soils, whatever their character, cannot be utilised with success. Buckwheat does not like clays, but thrives upon all the lighter and medium soils if they are properly tilled.

Flax is an important plant, although from reasons which ought not to exist it is not largely grown in this country. It likes a dry, porous, and deep soil, and these conditions obtained it prefers the clean loams of the lighter or sandy class. Flax, however, grows upon almost any kind of soil. We have grown it over chalk with success, and in Ireland it is often grown upon peats (where, by-the-by, wild flax may often be found), gravels, and clays, and even moorland if well cultivated will respond to this plant. Wilson has given partial analyses of several of the best flax soils of Ireland and Belgium, and in every case silica was present in large quantities, while alumina, ranging from 5\frac{3}{4} to 8.9 per cent in the Irish, was present only to the extent of from 1.1 to 1.5 per cent in the Belgian soils. Again, the Irish soils, as might be expected, contained more moisture as well as more organic matter. For flax growing the soil

should be rich and in fine condition.

Hemp, although adapted to our soil and climate, is not grown in this country to any extent worthy of mention. It prefers alluvial or rich vegetable soils which contain plenty of moisture, although it objects to actually wet land. Rich loams, the black soils of the fens and marshes, the warped lands of the East, are all adapted to the requirements of this plant, but it will not thrive upon the lighter

thin, dry soils.

The Potato grows in almost all soils and climates, but it has its preferences. The sandy loams and alluvial deposits are those which it prefers and which enable growers to produce the best samples. What the growers occupying soils of a less suitable character lose in quality, however they often gain in quantity. It is hardly possible to name a soil which can be tilled for potato cultivation which will not successfully grow the popular tuber. It demands a free, rich soil. thoroughly porous, and yet sufficiently retentive to supply it with abundant moisture. What nature has denied to many growers in the condition of the soil they have managed to provide by cultivation and manure. The warped lands of North Lincolnshire, the sandy loams of the Vale of York, the rich lighter loams of Scotland, and the better class of peats which are well dressed with lime, all produce good crops. On wet or heavy soils the crops are smaller and more liable to disease. The heavy clays, the thin gravels, and chalks are all unsuitable; but even on these the workman grows the ubiquitous plant, which responds to the attention of man in the tropics and even in hail of the arctic circle.

The Mangel is one of the most valuable of agricultural plants, but its success depends so much upon climate that it is but little cultivated in the northern half of these islands. The mangel of the farm is closely allied to the sugar beet, and the value of the latter is a fair indication of the value of the former as a food for stock. Remembering that the mangel is a summer plant, thriving best in a mild climate, we have to remark that although it is grown over a wide range of soils it has a very marked preference for the lighter clay loams and for the medium soils, as opposed to the extreme light thin soils on the one hand and the heavy clays on the other. So gross a feeder as the mangel needs an enormous quantity of food, and a soil capable of supplying it in a suitable condition.

Turnips grow on a variety of soils, and they, too, have their preferences; but these preferences are rather of a physical than of a mechanical character. A dry, friable, porous soil of deep staple is essential, for the turnip objects to wet soils, and yet it needs a climate providing plenty of moisture. Turnips, while thriving best upon the fine loams easily pulverised by good cultivation, are grown upon thin gravels, chalks, and even sands with success; but this success depends upon both climatic help and good manuring. The

turnip, in a word, is one of those plants which can be grown on almost any soil where skill and manure are applied in its cultivation.

The following minute analysis of a Scotch soil, included by Mr. James Macdonald in his edition of "Stephens's Book of the Farm," and made by Dr. Anderson, will be found extremely valuable. It is described as "a good arable sandy loam, well fitted for the growth of turnips in Dumbartonshire":—

Organic matter	5.53
Peroxide of iron	.37
Lime	•36
Magnesia	•49
Potash	1.25
Chloride of sodium	2.91
Phosphoric acid	.72
Sulphuric acid	4.43
Silicic acid	8 02
	24.08
Peroxide of iron	427.02
Alumina	260.15
Lime	33.77
Magnesia	27.71
Potash	221.05
Soda	3.48
Chloride of sodium	20.66
Phosphoric acid	37.77
Sulphuric acid	5 94
Silicic acid	52.68
Organic matter	576.61
Insoluble silicate	7,988.62
Moisture	323.46
	9,978.92

Soluble in water.

Hops are confined to districts, and in this country Kent is the most favoured. Among the most favoured soils are those which have been formed from the upper green sand and the deep rich, porous loams. In the investigation, details of which were published in the journal of the Royal Agricultural Society, the following analysis of a good hop soil was given:—

Insoluble siliceous matter (sand)	19.64
Soluble silica	6.45
Phosphoric acid	1.82
Carbonic acid	28.98
Lime	37.71
Magnesia	.68
Oxide of iron and alumina	3.04

98.32

Company in

This was described as a grey marl lying directly upon a green stratum. This stratum, which is said to have yielded many fossils, gave after their removal:—

Insoluble siliceous matter	32.81
Soluble silica	29.14
Phosphoric acid	6.61
Carbonic acid	2.30
Lime	9.53
Magnesia	1.97
Oxide of iron and alumina	
Potash	3.10
	96.92

Here two most important soil constituents—phosphoric acid and potash—were present in great abundance, needing only organic matter to make it of much greater value; but this it acquired as it came under the influence of the farmer. In one of the best Kentish soils a high percentage of the same two mineral soil constituents was found. In other districts hops are grown upon the red sand-stone formations with great success, but much again depends upon the climate.

. Grass.—So large a portion of the cultivated area of an agricultural country is devoted to grass that a few words are necessary with reference to the soils on which it thrives best. Grass pastures and meadows are chiefly composed of a mixture of various kinds of plant which include the grasses proper, members of the order Graminea, and clovers belonging to the Leguminosa. Wild herbs are also found in greater or lesser variety in accordance with the nature of the soil. Thus we find in clays, loams, and marls, rye grass, cocksfoot, foxtail, meadow fescue, hard fescue, tall fescue, timothy or catstail, white clover, perennial red clover, alsike clover, trefoil. On the higher soils of this character sheep's fescue and dogstail are added, and in the loams, marls, and limestones smooth-stalked meadow grass. On alluvial deposits soft brome is often found in abundance, with sheep's parsley on loams and brashes, yarrow on loams and sands. On the clays the poas, fescues, agrostis, and buttercup may be recognised as natural products. On peat, ling, heath, and such other weeds as the thistle and spotted orchis On wet or marshy vegetable soils, rushes, flags, sedges, and cotton grass diminish the grass area, which contains fewer of the better grasses and more of the worthless varieties. On gravels, hair grass, sheep's sorrel, bent grass, and soft bromes are found. The clovers are characteristic of rich soils, especially those of the heavier classes, while the great oxeye is found on very poor soils. Temporary grass crops become intermixed with thistles, docks, sorrel, and knot grass upon gravels, and with wild camomile, corn cockle, and butter-

cup on cultivated clays. Weeds are everywhere indicative of the nature or condition of the soil, and the poorer it is the more readily is it covered with weeds to the exclusion of cultivated grasses. The heavier soils are most adapted to grass and clover, because of their retentive nature. All these small plants thrive best on a firm tenacious soil, and fail most often upon light soils. They also prefer the moist climates of the west to the dryer climate of the eastern counties. In the experimental work conducted by the Bath and West of England Society, analyses of soils upon which the cows which produced the milk used in the investigations were fed, were made by the Society's chemist, Dr. Voelcker, with the following results:—

Composition of Pasture Soils near Frome.

	No. 1.	No. 2.	No. 3	No. 4.	No 5.
*Organic matter and water of com-					
bination	17.12	15.13	12.95	13.87	14.43
Oxide of iron	3.83	5.61	1.56	1 88	6.64
Alumina	5.45	7 28	10.31	14.59	8.41
Lime	10.32	2.07	.96	4.56	2 25
Magnesia	.77	.55	·37	•36	.72
Potash	.77	.55	-65	.65	.65
Soda	·16	·16	.30	79	.20
Phosphoric acid	.29	.24	.32	.27	.25
Sulphuric acid	23	·14	•24	.13	·13
Chlorine	·13	trace.	.002	01	trace.
Carbonic acid	6.60	.60	·23	2.14	95
Insoluble silicate and sand	54.33	67.67	72 11	60.75	65.37
	100 00	100.00	100.00	100.00	100.00
*Containing nitrogen	.77	.54	.51	51	54

These soils were described as rich brown heavy loams, approaching in No. 1 a marl, containing discernible pieces of lime in Nos. 1, 2, and 4. They were said to be extremely rich, their richness being owing to the nitrogen in the organic matter, which Dr. Voelcker said was larger in quantity than would be found in any arable soil, or in any soil which had not been down in pasture a very long time. There was abundance of lime in every case, with large proportions of iron and alumina, while they were in each case unusually rich in potash, phosphoric acid, and magnesia, the sample containing the smallest quantity of phosphoric acid showing quite double what is met with in good arable soils. These soils were in a word exceptionally fine, and yet the cow parsnip, the buttercup, the large plaintain, the daisy, the oxeye, and the dandelion were found among the grasses.

Grasses are so numerous and so varied that it is impossible to refer to their preferences in any but a limited sense. In the northern part of the Continent most of the varieties cultivated in Great Britain are recognised, but even in France there are some grasses, which are regarded as weeds in this country, which are grown systematically, such as holcus lanatus, or Yorkshire fog. As we approach the Alpine regions and the grassy plains of Italy and the South, however, we find varieties which are not cultivated in Great Britain at all, and the remark applies in a more extended sense to America and many other countries.

Cabbage in its various varieties is one of the most important crops of all temperate countries. It has the faculty of growing to an enormous size, and the tiller of the soil is able to extract an enormous amount of food from an acre devoted to this plant. Cabbage will grow on almost any soil with a staple, if it is well fed with manure, but it prefers the stiffer soils to those which are of a lighter character. Thus the heavier loams produce a much heavier crop than the sands, gravels, and chalks; at the same time, soils of each of these kinds with sufficient depth will produce an enormous weight of cabbage when really well tilled. The cabbage must have plenty of moisture, and for this reason the better class of peaty soils, alluvials, and heavy loams are all suitable, whereas many other soils which might be utilised are unable to carry a crop on account of their dryness and altitude.

Carrots and Parsnips demand deep soils, the former thriving best in the sandy loams, alluvial deposits, and rich vegetable moulds prevalent in favoured districts. The parsnip will grow successfully in heavier soils than the carrot, but both like an open porous

texture, and plenty of depth.

Lucerne, one of the most favoured forage plants known in the world, is not grown in this country so generally as it might be. It is a plant requiring a soil which is rich in lime, which is not light in character or too heavy, and which has great depth. No cultivated plant with which we are acquainted sends its roots to such a depth. We have seen them 19 feet below the surface, and instances have

been quoted in which they have reached 30 feet.

Sainfoin, if not so valuable as lucerne, is nevertheless a most economic plant adapted to the chalk hills of sheep districts. It withstands drought but not so well as lucerne, provides a very rich fodder relished by all classes of cattle, and is one of those prolific plants which are utilised in the manufacture of mutton. Neither of these two favourite leguminous crops are sufficiently hardy for cultivation in severe climates, but while both succeed in soils rich in lime provided they are dry, sainfoin has a distinct preference for the lighter soils as compared with the heavier.

The Vetch, or Tare, belonging to the same order as the two preceding plants, is one of the most valuable we possess in Great Britain, providing with little trouble an abundant crop of fodder suited to the requirements of domestic animals of all kinds kept on the farm. This plant, growing almost anywhere, does not demand either so much depth or quality as many plants. It is hardy in all parts of England, grows well on clays, loams, gravels, and chalks of the better class, thriving best of all on those soils which are in high condition. The soil, however, must be drained naturally or artificially, at the same time the vetch likes plenty of moisture.

We have thus far dealt with the cultivated plants of Great Britain, so many of which are grown in other countries for export to us. It is a curious fact that even where climate permits of the cultivation of many of these crops their character is changed to a large extent by its influence. We have already referred to wheat. We may also remark that in parts of Canada and New Zealand, as in Scotland, oats of very high quality are produced which compare most advantageously with the oats sent us from Russia and Sweden. Few countries, however, can produce the kind mellow barleys which are grown in Great Britain; again it is not the soil alone which accounts for this, but soil and climate. British beans and peas are perhaps the best in the world for similar reasons. Forage crops and roots are more abundant with us because we are assisted by the suitability of our moist and mild atmosphere. Our grasses are unexcelled in the northern hemisphere, and in a word there is scarcely a British-grown cultivated plant which is not grown to greater perfection by our people than by those of any other country. Nor is this owing alone to skill or soil but to both, assisted by climate.

TROPICAL PLANTS.

In the article which appeared in the "Annual" a year ago, we showed that it was possible for the people living under the British flag to grow every crop, every food required by the population of the Empire. Tea and coffee, tobacco and sugar, rice and maize, wine and cotton can alike be produced where the climatic conditions exist. If we examine the tobacco soils of America, the wine soils of France and Germany, and the rice soils of India, we find that they differ in no essential degree from many similar soils at home or in our colonies, but the temperature is quite another thing. We refer to a few of these plants that it may be seen how partial is the influence of the soil, and how possible it would be to grow almost every crop in Great Britain if our climate were suitable. Climate is often local. A country which is near the equator, and which on a level with the sea is extremely hot, may include mountains with every degree of

temperature between zero and the temperature of the plains. In such a case vegetation may, where the hand of man directs it, range between the tropical plants and those of the temperate zone. Similarly in our own country climate is influenced by the proximity of woods, marshes, and mountains, which either intercept the rays of the sun or which affect the temperature of the surrounding soil in consequence of the coolness of the vapours which are prevalent. In a minor degree the soil influences the temperature, the dry sands of one district causing a greater amount of heat to prevail than the wet clays of another. Johnston has pointed out how temperature influences vegetation. Thus—

	Latitude.	Mean. temp.
Equatorial Zone.—Palms and bananas	Equator to 15°	 max temp. to 78°
Tropical Zone.—Trees, ferns, figs	15° to 25°	 78° to 73°
Sub-Tropical Zone.—Myrtles and laurels.	25° ,, 34°	 73° ,, 62°
Warm Temperate Zone.—Evergreens	34° ,, 45°	 62° ,, 53°
Cold Temperate Zone.—European trees	45° ,, 58°	 53° ,, 42°
Sub-Arctic Zone.—Pines	58° ,, 67°	 42° ,, 39°
Arctic Zone.—Rhododendrons	67° ,, 72°	 32° ,, 28°
Polar Zone.—Alpine plants	72° ,, 90°	 16° ,, 1°

The above references are only indications of a wider range of plants which grow in each zone, many of which will occur to every reader who has the most elementary acquaintance with European

plants and the produce of the tropics.

Tobacco is a plant which is rich in mineral matter, especially potash and lime, hence a soil containing abundance of these materials together with plenty of humus or organic matter in a condition to be gradually utilised by the roots is necessary. Some of the best tobacco-growing soil in the world is a moderately light sandy loam, which is at the same time porous and rich. All the lighter loams and the alluvial soils are suitable for tobacco, and we have seen it growing on the richest class of moulds largely composed of vegetable matter. A great deal of tobacco is grown in America upon soil which has not long been in cultivation, and which was previously prairie land, containing an enormous quantity of humus. Fairly hardy as the plant is, although it has been experimentally grown in this country and is now grown in some of the northern countries of Europe, high quality is not produced. It is a native of the tropics, and is influenced perhaps more by climate than by soil.

Tea.—Experienced growers describe a typical tea soil as a light loam, or a loam in which clay, humus, and sand are present in fairly large quantities. A tea soil must be dry and deep, with a stiffish subsoil, but here again we are met with the curious fact that tea, like many of our own British plants, can be grown with success upon soils

of great variety so long as they possess plenty of humus, which may be provided artificially if it is not present as the accumulation of ages. Climate again comes in, however, for the tea plant requires abundant moisture and warmth.

Coffee is said to grow in almost any soil between the two extremes of heavy clay and poor dry sand. Loam, however, is preferred so long as it has plenty of staple to provide food for the long root of the coffee tree. It is said that coffee often produces an abundant crop on

dry soils.

Cacao.—Like the coffee and the tea plants, the cacao also has a long root, necessitating a deep staple. This plant thrives in alluvial deposit and the richer soils produced from rocks of volcanic origin. It objects to the heavier clays, but thrives on loams of the richer class.

Sugar Cane.—All planters of experience declare that the sugar cane will grow in soils of almost every class. There are seasons when some species, such as the Chinese sorghum cane, will reach considerable growth in this country, and in one the writer grew an extraordinary crop which was very rich in sugar. In those countries where sugar is produced the cane is grown upon soils of almost all kinds, but it produces the most satisfactory results on alluvial soils and the richer loams and loamy clays. Lime is an essential ingredient of a soil intended for the production of this crop. But for climate the sugar cane might be grown in this country, inasmuch as there are many soils suitable for its production, but, like many other tropical plants, it prefers the very warm, humid atmosphere which is found in many of our own colonies. It also thrives better on the sheltered lowlands than on the more exposed soils of the hills.

The Orange.—An experienced Florida grower recently pointed out to the writer that the most productive soil in his State was of a rich black vegetable character; nevertheless, the orange tree is productive in soils of almost all classes provided always that they are dry and deep, for the roots penetrate into the earth to a very considerable depth. It is an undoubted fact that a soil suitable for this plant to grow at its best must be well provided with humus.

Ginger reaches its greatest perfection upon moist rich soils of a medium character, more especially loams containing abundance of humus. It objects to extremely dry, thin, heavy, or sandy soils.

The Nutmey prefers the lighter loams and alluvial deposits. It is also found on loams rich in humus, but objects to both wet and

excessively dry soils.

Pepper has a very wide range of soils, but they must be well drained and of medium character, neither a heavy clay nor a hot thin sand. The rich alluvial soils which are often found in tropical climates are excellent for the purposes of its growth.

Rice prefers a clayey sand or a sand in which a moderate proportion of clay is present. It delights in moisture and in great heat, at the same time that it prefers a soil of free texture which the sand provides, the clay giving the necessary retentive power. Rice is largely grown on irrigated soils.

Tapioca is the product of the cassava plant, which grows on rich loams of the lighter class if well drained under heavy manuring. Greedy of food, cassava needs high cultivation, but it demands a dry,

warm climate, which is not provided in this country.

Arrowroot also delights in light sandy loams which are free from

stagnant water and have a porous subsoil.

The plants we have referred to under this heading are sufficient for our purpose. The soils upon which they grow practically show that climate alone prevents their being produced in Great Britain. We have in these islands, as a matter of fact, soils adapted to every known economical plant, but, as we have pointed out already, climate alone prevents the cultivation of those crops which demand heat and other conditions found only in tropical and sub-tropical climates.

It has been mentioned by an able writer in "The Book of the Farm," in connection with the subject of the indication of soils by the weeds growing upon them, that ragweed denotes a deep vegetable soil, wild thyme a thin vegetable soil, clover and wild vetches good vegetable soils; the dry soils are indicated by the mouse-eared hawkweed, purge flax, and autumn hawkbit, and very dry soils by the yellow bedstraw; that the presence of moisture below a soil is indicated by the yellow iris, the cuckoo flower or ladies' smock, the ragged robin, the purple dead nettle, and the smooth naked horse tail; that a favourable subsoil, often contrary to expectation, is denoted by furze or gorse, and an unfavourable one by the broom plant; that a soil rich in condition is recognised by the common chickweed and the common fumitory, and a poor soil by the great oxeye; and the presence of peat by the spotted bearded orchis. The first volume of this work may be referred to by readers who desire to pursue this matter further, numerous lists of plants being given which indicate not only the classes of soil but their particular condition.

SOILS IN SOME BRITISH COUNTIES.

A FEW references to the soils of different counties will be sufficient to show how diverse is the crop-growing character even in this comparatively small country, and yet how similar in many respects is the range of plants under cultivation. Growers upon different soils in different climates manage to achieve the same, or nearly the same, results by the exercise of skill and good management. Mr. A. T. Matthews says that in Surrey large tracts of heath run from east to west along the ridges of the chalk hills, those in the

west expanding and becoming irreclaimable moorlands. In the Weald there is a cold retentive clay stretching along the southern border. This, however, is not a uniform soil, some being of really high quality and growing excellent crops of wheat, hops, and clover, and carrying good pastures; much, however, is extremely poor and costly to cultivate, for which reason it has been laid down to grass. The best land in the county is the deep sandy loam resting upon sandstone. Upon this soil first-rate barley, turnips, clover, and wheat, and almost every agricultural crop is grown. In another part of the county is a large tract of clay streaked with sandy loam. From the northern borders of this clay up to the Thames the soil is chiefly sand, intermixed on the banks of the Mole, the Wey, and the Wandle with loam and clay, enabling the market gardener of the district to conduct an excellent business. In this district lavender, peppermint, wormwood, and camomile are all extensively cultivated.

In the sister county of Kent, the Weald, as it is termed, chiefly consists of strong, poor clay, upon which wheat, oats, beans, and hops are grown in accordance with the system of cultivation adopted and the improvement which has been effected in the soil. Near the Medway are low-lying, deep loams, with a staple from four to nine feet in thickness. Here hops, fruit, roots, and grain crops are grown in abundance, more especially during showery seasons. A third class of soil famous in Kent is a mixture of clay and sand, the former predominating, which binds seriously in wet weather during which it must not be touched. There is also a soil which is excessively hungry, and which has a gravel subsoil. With heavy manuring this will grow grain, roots, and hops well, but in dry seasons it is not productive.

Dorset, a leading southern agricultural county, contains a great deal of excellent land, much of which is a gravelly loam on a chalk subsoil. This, and a reddish loam of deep texture, is the best the county can produce where it is dry and healthy. Some Dorset gravels, however, although providing excellent food for cattle and sheep, burn during hot weather when they are not productive. The best lands run to some 25,000 acres in extent. With a wide diversity of soils between good and bad Dorset is able to produce

grain, roots, sheep, and milk in abundant quantities.

In Derbyshire the best soils are those of the valleys of the Dove and Trent, the former extending from Tissington by Sudbury and up to the junction of the Dove with the Trent. The land in the valley of the Derwent is also of excellent quality. It varies from a light to a strong loam, the light loams being in the Trent valley and the stronger loams in the Dove valley. Most of this land is pasture and meadow, but small quantities of wheat, together with oats, barley, and roots, are grown in some instances.

In Gloucestershire, which in some respects resembles Derbyshire, a cattle and milk producing county, the best soils are the clays and alluvial deposits near the river Severn. Grass is the principal product, and beans and grain are grown, although roots are liable to mildew in the lower soils. Here the influence of climate is felt, and this rules the agricultural system of the county.

In the counties of Berkshire and Oxon, some of the best soils are of a deep loam on gravel subsoil and green sand. These are chiefly found in the Thames valley. On one class of soils barley and oats are chiefly grown and sheep fed, while on the other some of the

finest wheat and beans in the country are produced.

Leicestershire includes a typical cheese-making district, but here again the soils are extremely varied. The best permanent pasture (and it is of a very high quality) is in what is known as the Harborough district, where oxen are easily fed on grass alone. another part of the county, embracing some 20,000 acres, soils are deep and contain a very large proportion of humus on a clay subsoil. Again, in another district a free loam with plenty of staple covers some 16,000 acres. This is good pasture but does not possess the rich feeding properties of the grass in the first-named district. Between Leicester and Loughborough excellent grain, roots, potato, and clover crops are grown on an extremely rich soil. Curiously the land on which Stilton cheese is produced is mainly of secondrate quality and generally heavy. In the north-eastern part of the county a great deal of soil rests upon ironstone, while in the Charnwood Forest district to the north-west the land is thin and weak. In the south and south-west mixed farming is conducted and flat cheese made. Here the grass is of second-rate quality.

Crossing to Lincolnshire, which includes some of the best land in Great Britain, we find that in the Kirton district is a very fertile, deep rich dark loam, which grows some of the best potatoes sent to the London market. In the northern part of the county the same crop is grown upon the red soil, which produces similar quantities of a better quality of potatoes, second only to those which are grown in the fine potato soils near Dunbar. The Lincolnshire Wolds are more suited for barley and turnips; good wheat is also The subsoil is chalk, with the result that the land is maintained both moist and cool, whereas on the oolite formation the soil burns in hot summers. Among the finest land in the county is that known as the Heath. This, although very thin, is especially adapted for the growth of barley, and as much as 50s. a quarter has been paid for the fine qualities grown here by the chief Burton brewers. In the warped district, which includes some of the very richest land known and lying on the banks of the Trent, are some 20,000 acres in what is known as the Isle of Axholine. This soil reaches into

Yorkshire on the Ouse, and produces fabulous crops in most years. There is also a smaller district in the east of the county in which are very fine pastures, which have been known to feed an eighty-

stone bullock and a sheep to the acre.

The Yorkshire district includes almost all classes of soil, as it also includes every class of farming known in Great Britain. In the Holderness district in the south-east of the county about 370 square miles is included, alluvial and boulder clay growing wheat, beans, clover, and potatoes. North of this district are the Wolds, some 376 square miles. Here the soil is light on a chalk subsoil, growing barley, turnips, seeds, and wheat. In another district on the oolite formation, about 1,000 miles square, the soil is extremely diversified, and the crops are various in consequence, hill and dale, occasional alluvial deposit, with medium soils of several classes. In the Vale of York is the finest land in the county, on the new red sandstone, about 1,150 miles square, producing every variety of crop in the highest quality. The best land in the north of the county is in the Vale of the Tees and in the Thirsk district. In this district is some of the finest farming in Great Britain. The highest type of cattle, sheep, and horses, and some of the finest crops of roots and grain are grown. From the south of the county a narrow strip of magnesium limestone runs nearly as far as Bedale. This is about 270 miles square, producing varied crops. About a third of Yorkshire is mountain limestone and silurian, and is chiefly covered with grass, sheep being fed on the higher portions and cattle in the vales.

One type of a Southern hill county must suffice. The Southdowns comprise a large portion of the county of Sussex, and these are chiefly chalk, and grow the well-known Southdown sheep. The best arable lands in the county are (1) south of the Southdowns between Lancing and Chichester; (2) the arable soils adjoining the rivers and in the valleys through which these rivers run, such as the Ouse, the Cuckmere, the Arun, and the Adur; (3) the arable soils north of the Southdowns and running from a quarter to three-quarters of a mile away. The best soils of the county are chiefly of a strong loam or alluvial character, but among the last named, north of the Southdowns is a good stretch of black vegetable soil lying on chalk, but it is expensive to till. The chief crops grown on these soils are wheat, beans, and roots.

Each county so far named is famous for some specialité, but that specialité is practically owing to the system followed on particular parts of the county, i.e., on particular soils. Thus the Southdowns of Sussex are really the produce of the Downs themselves. The fruit and hops of Kent are the produce of particular districts, the

larger portion of the county being ill-adapted to either crop, and remarks of this kind in a modified form are applicable to every other

county in the country.

One of the chief milk-selling counties of England is Bucks, in which is the famous rich Vale of Aylesbury, where the soil is a rich dark loam upon a clay subsoil. There are also fine loams on gravel, but in dry years they are said to burn. The best arable soils are at the foot of the Chiltern Hills, and they are capable of growing every description of grain crop with success. This soil is a dark or sometimes grey loam upon clay, while others are upon gravel. Much of this soil is said to have been brought by the rains from the adjoining hills. This soil penetrates several miles into Herts, Oxon, and Berks. The hill land is of poor quality, yellow clay on chalk.

We are able to trace the influence of soil and climate in our cattle and sheep. The cattle of Wales, the West Highlands, and Kerry are adapted to the mountain pastures on which they live. Perhaps it would be correct to say that they have been made what they are by these mountain pastures and the particular climate. noticed that the fine cattle of the Swiss valleys deteriorate in size and form when confined to the mountains, and our Shorthorns and Herefords, accustomed to lowland pastures, would probably do the same. The sheep of the Scotch Highlands, the Welsh Hills, the mountain districts of Cumberland, Westmorland, Yorkshire, and Dartmoor, are all characteristic of a rough life, short poor grass, and cold or wet climate. The small ponies of Exmoor and the New Forest are the products of inferior food grown upon land of wretched quality, and generally deficient in lime. The shire horse is brought to the highest perfection on the richer soils of Lancashire, Lincolnshire, and Derbyshire.

These remarks must conclude with a short reference to Ireland. Clare is largely composed of mixed lime and brownstone, as an expert correspondent describes it. Much of the soil is cold clay, wet, and badly cultivated. Limerick is largely composed of limestone, and possesses abundance of rich feeding and dairy soil. It is said that in the Golden Vein a bullock and a sheep can be fed off by July 1, and another by November. There is little tillage, potatoes excepted, in this county. Waterford includes a great deal of waste mountain land, but there is some useful soil on each side of the railway from Limerick to Waterford. The soil of Tipperary is excellent, including both limestone and sandstone. Here milk is largely produced and sheep are grown. In the East Riding of Cork the soils produce milk, barley, roots, and grass. In the West Riding the soil is cold, wet, and inferior. Milk production is nevertheless followed. The best soils in the county are calcareous loams overlying the mountain limestone at its junction with the old red sandstone. They

are found in the lower valley of the Lea and the valley of the Blackwater and its tributaries, and extend over an area of nearly 500 square miles. On these soils almost all crops succeed, although grass fails in very dry weather, when roots are uncertain. In Kerry the greater part of the soil is very inferior, on the mountains the herbage is either very deficient or absent altogether. Here grain crops are almost unknown.

The following analysis of a heavy soil in the Carse of Gowrie, which is taken from the "Highland Society's Transactions," shows the comparative composition of the soil and the subsoil:—

	Soil.	Subsoil.
Potash	2.800	 2.176
Soda	1.439	 1.045
Lime	830	 $1\ 275$
Magnesia	1.020	 1.393
Peroxide of iron	4.870	 6.230
Sulphuric acid	.091	 .039
Phosphoric acid	•240	 .268
Carbonic acid	.050	
Chlorine	.009	 .020
Alumina	14.040	 14.247
Silica	$63 \cdot 195$	 61.635
Organic matter	8.550	 6827
Water	2.700	 4 575

BY J. HIRST HOLLOWELL.

E are now hearing almost more about technical education than about education in general. The adjective is, of course, not greater than its noun, but the latter is perhaps in some danger of being depreciated or misunderstood. The right education of a people will draw out its whole capacity. Education cannot be complete if it has no reference to sciences, arts, and industries. It must train men for action, as well as for language and enumeration. It must seek to fit men for life as they will actually live it, whether in home or study, or in the widest range of their

contact with nature, society, and duty.

We are so accustomed to think of all that happened in educational affairs previous to 1870 as necessarily faulty, that we are in danger of forgetting some favourable features prior to that date. We showed in a former article on "The Education of the People," that free education was introduced into the numerous schools started at the beginning of the eighteenth century. It is of equal interest to remember that manual instruction also entered into that well-intentioned but inadequate scheme of school reform. Correct educational ideas have never been wholly wanting. What have been lacking have been the public spirit and the financial resources to give effect to such ideas.

If we turn to the Minutes of the Committee of Council on Education issued under Sir Robert Peel's Government in 1846, we find that the educational statesmen of that day were much in advance of their time in regard to manual and technical education. The most

remarkable part of the Minutes was the offer of

GRANTS FOR GARDEN, WORKSHOP, AND HOUSEWIFERY INSTRUCTION.

HERE was the promise—we cannot say the dawn—of the technical instruction of fifty years later. The wish of the framers of the Minutes was in part to get rid of the idea—so much more prevalent in England than in Scotland—that the cultivation of the mind is inconsistent with manual labour. In part also it was desired that school gardens might be worked as allotments by the scholars, so as to augment the income of the labourer's family. Then, again, it was hoped that workshops, as forming part of the school system, would

^{*} See pp. 319-344, "The Co-operative Wholesale Societies' Annual for 1892."

impart useful handicrafts to children in the crowded cities. Many of these children were growing up without means of honest or certain livelihood. Costermongering, errand-running, street duties of the most casual kind, vagrancy, tricks of cunning and theft were the employments amongst which thousands had to make their choice. For such children it was intended to make going to school the means of learning not only reading, writing, and arithmetic, but some calling like that of carpenter, smith, or cooper. Their lordships offered to assist the erection of buildings and the purchase of tools, and they even went so far as to promise gratuities to master workmen for every boy who should come to learn and practise a They also offered assistance towards the domestic training of girls. Money would be given for a wash-house and kitchen, in order that household management might be taught in such branches as cookery, laundry-work, and family needlework. Mistresses who succeeded in giving this instruction were to be rewarded by gratuities. The idea was good, thoughtful, and even daring, but it bore little fruit. The difficulty then, as now, was to impart extra instruction in schools where the *ordinary* work is poorly done, where the staff is inferior, and where financial resources are slender.

Even in our own day, as we shall have occasion to see, technical instruction is impeded by defective elementary training of our young people. But what could be hoped for in the days that followed Mr. Slaney's Committee of the House of Commons in 1838? The state of education was deplorable. Sir James Kay-Shuttleworth remarks* that the day school was "little more than a less efficient edition of the Sunday school. . . . The religious formularies, and the Bible itself, suffered therefore a painful desecration as the hornbooks of ignorant scholars, in charge of almost as ignorant teachers, who were for the most part under twelve or thirteen years of age." It was found, as the result of careful researches by the Manchester Statistical Society,† that the following was the educational condition of Liverpool, Manchester,

Salford, Bury, and York :-

Population of the five towns 533,000.	
Children, ages 3 to 13, after deducting one-third	80,050
Children in tolerably good schools	21,957
Children in worthless dame and common day schools	29,259
Children in no school at all	28,834

So that out of 80,050 children, no fewer than 58,093 were either quite untaught or were in schools of next to no value.

But we need not go so far back as 1843 to see that minutes may propose forms of superior instruction which schools are unable or

^{* &}quot;Public Education," p. 58.

^{† &}quot;Report of Statistical Society of Manchester, 1837."

will refuse to touch. The Technical Instruction Act, 1889, is being applied in thousands of neighbourhoods to forms of elementary instruction, technical in only the vaguest sense, which might long since have been imparted under the Code in the day schools of the country. Take the Code in force only nine years ago (1885).

Possibilities of Higher or Technical Instruction in 1885.

There were then 18,761 schools inspected; 4,337,000 scholars were on the school registers. The Treasury spent £2,867,653 in grants to the schools, or 17s. per head for every scholar in average attendance, and the total cost of "school maintenance" was £6,630,623.* What did this immense sum procure of science or technical results in the agricultural counties? What advantage was taken of the special grants offered for such subjects as elementary science and geography. Besides these subjects, the Education Department offered a grant of 4s. per scholar for every senior scholar who passed in a specific subject. These subjects were, even in 1885, of industrial, commercial, and technical value. Many of them are the very subjects which, as we shall see, the County Councils are now endeavouring to teach in the rural districts. Great cost is being incurred, and the machinery of our educational system is made highly complicated by this new development. But it ought to be known that years before the Technical Instruction Act was heard of the following subjects might have been taught in the day schools if the latter had been under proper management and in a position to command suitable buildings, appliances, and staff, viz.:-

Euclid and Mensuration.—To Book II. and the elements of mensuration.

Mechanics.—Descriptively and experimentally taught.

Animal Physiology, with diagrams and models. Botany. Organs, structure, food, functions, fruits, germination.

Principles of Agriculture. — Plant food, tillage, manures, growth and variation of crops.

Chemistry.—Compounds, decomposition, the gases, pure air, carbon, metallic and non-metallic bodies, symbols and formulæ.

Sound, Light, and Heat. Magnetism and Electricity. Domestic Economy (girls).

Cookery.

Here we have subjects of what is now called "technical education," every one of which was then offered to the country as part of day school education for children in the upper standards. But such were the organisation and resources of the great mass of day schools that they let these interesting lines of teaching alone. The Minutes of 1846 hardly fell more flat. And simply because the Code

^{*} P. xlii., Blue Book, 1885-6.

was drawn up by a responsible Government, while the neglect or application of its optional articles rested for the most part with

private and irresponsible managers.

Let us take a few typical counties. Of course London, Birmingham, Leeds, Nottingham, Leicester, and Scotland generally, began to carry out parts of Schedule IV. of the Code, that is to teach subjects bearing upon our industrial and commercial interests, and fitted to develop the mind and aptitude of scholars. In 1886 Scotland made one pass in these subjects for every four of her older scholars. The School Board of Nottingham alone, as far back as the year 1884, made 1,114 passes in specific subjects. In

The state of the s			
Euclid	23	Domestic Economy	222
Algebra		Cookery	227
Animal Physiology	275	Agriculture	14
French	56	&c., &c.	

The following year its passes were 2,019, of which 444 were in mechanics. The best school boards would show somewhat similar figures. But not a few counties, in which public resources were not yet available for education, revealed a lamentable state of things.

Lincolnshire, with 595 schools, sent only 394 scholars to be examined in

specifics.

Berkshire, with 236 schools, sent only 121 scholars.

Buckinghamshire, with 248 schools, sent only three scholars.

Dorsetshire, with 267 schools, sent only 18 scholars.

Herefordshire, with 192 schools, sent only 79 scholars.

Oxfordshire with 253 schools, sent only 189 scholars.

Somerset, with 553 schools sent only 233 scholars.

Wilts, with 352 schools, sent only 205 scholars.

And even as late as 1892 (Table C, Report)—

Berkshire taught the more scientific and technical subjects to only 361 scholars out of 42,165.

Cheshire to 1,485 scholars out of 124,203.

Dorsetshire to 21 scholars out of 32.867.

Suffolk to 115 scholars out of 64,628.

Shropshire to 141 out of 40,140 (1 in 280).

Yorkshire has done better, viz, 1 in 50.

Lancashire, also 1 in 50.

Notts, better still, 1 in 28.

London, best of all, 1 in 21.

Such figures proved the utter incapacity of existing systems of management and support in the rural districts to carry education through its scientific and technical phases.

A ROYAL COMMISSION ON TECHNICAL EDUCATION WAS ISSUED BY HER MAJESTY IN 1881.

The Commissioners appointed were Bernhard Samuelson, F.R.S.; Henry Enfield Roscoe, LL.D., F.R.S.; Philip Magnus, B.A., B.Sc.; John Slagg, Swire Smith, and William Woodall. Their very

valuable report was published in 1884. They visited France, Switzerland, Germany, Austria, Belgium, Holland, and Italy, calling at some sixty or seventy towns. At home, they visited educational establishments in over twenty English and Scotch towns. Ireland also was visited, and the interesting features of technical education there were noted. The secretary of the Royal Agricultural Society of Great Britain, Mr. H. M. Jenkins, was made a sub-commissioner with instructions to report on the teaching of agriculture in France, Germany, Denmark, Holland, and the United Kingdom. Mr. Wm. Mather, M.P., the well-known mechanical engineer of Salford, visited the United States and Canada and furnished information of great value on the general and technical education and industries of the former, and on primary education in the latter.

We shall hereafter pass in review some of the systems and institutions of technical education in various countries of the world. But it will be obvious that a voluminous report following on so competent an inquiry could not fail to exercise a marked effect upon public opinion and legislation. Accordingly, five years later, Parliament had the whole subject before it, and there was passed—

THE TECHNICAL INSTRUCTION ACT, 1889 (Aug. 30).

This measure was not passed without prolonged discussion and important amendment. It was left to the very end of the session, and as originally drawn was not quite acceptable to an earnest section of politicians. It was alleged that it would further endow with public money the ordinary schools of the country, without introducing public control in any effective form. This view was repeatedly urged in Parliament and in the press. The vice-president of the Council, Sir W. Hart-Dyke, listened carefully to what was advanced by Mr. Channing and Mr. Picton on the one hand, and by technical experts like Mr. Mather and Mr. Woodall on the other, with the result that a compromise was agreed to, limiting the operation of the Act to scholars outside the standards of elementary schools. The following is an

ANALYSIS OF THE ACT OF 1889.

Section 1 (1) enables a local authority to supply or aid the supply of technical or manual instruction out of the local rate. But (a) not to scholars in the elementary standards. Nor (b) may scholars in schools so aided be required to attend any religious institution, service, or observance. (c) Denominational catechisms and formularies are not to be taught in aided schools to scholars attending only for technical instruction under the Act. (d) School boards and other managers aided from the Department of Science and Art may request aid from the rates for technical instruction given in their

schools, and the local authority may grant it subject to the restrictions of the section. The local authority shall (e) be represented on the governing body in proportion to the aid given from the rates. Questions arising shall (f) be referred to the Department of Science and Art, but no aid shall be given to schools carried on for private profit. Nor (g) can the rate raised for any year exceed one penny in the pound. (2) Delegation of the powers of the local authority may be made to a committee consisting wholly or partly of members of the local authority, saving the power of raising a rate, &c. (3) The existing powers of school boards to give technical or manual instruction shall not be interfered with by this Act.

Section 4 (1) defines "local authority" as the council of any county or borough and any urban sanitary authority (Public Health Acts); (2) defines the term "local rate;" (3) allows parts of counties to be charged with expenses under the Act; (4) sets forth the manner in which county and borough councils and urban sanitary authorities may borrow money for the purposes of technical

education.

Section 5 provides that managers shall render an account to the local authority, subject to audit, and that misapplied moneys be refunded.

Sections 6 and 7 give definitions of minor importance as to audit of accounts of urban sanitary authorities, and the application of the Act to Ireland.

Section 8 is of importance; it defines "technical instruction" in these terms:—

Instruction in the principles of science and art applicable to industries, and in the application of special branches of science and art to specific industries or employments. It shall not include teaching the practice of any trade or industry or employment, but, save as aforesaid, shall include instruction in the branches of science and art with respect to which grants are for the time being, made by the Department of Science and Art, and any other form of instruction (including modern languages and commercial and agricultural subjects) which may, for the time being, be sanctioned by that department by a minute laid before Parliament, and made on the representation of a local authority that such a form of instruction is required by the circumstances of its district. The expression "manual instruction" shall mean instruction in the use of tools, processes of agriculture, and modelling in clay, wood, or other material.

The Act does not extend to Scotland (Section 9).

Examination of the above digest of the Act will show its great importance, and also its leading defects. It is of great value as taking up the dropped thread of the Minutes of 1846 and both lengthening and strengthening it. It is an acknowledgment by the State that the curriculum of education, in the country districts especially, is thin and abstract, forming no sufficient preparation for the practical life of citizenship, industry, commerce, and art. It

also proves to demonstration that the widespread neglect of higher and technical subjects has been due to the absence of local

educational authorities with control of public funds.

But the defects of the Act are glaring. 1. It left unhelped most of the children in the standards of elementary schools—that is to say, left them at the mercy of private and irresponsible management, intent on economical or other interests rather than on giving the child a generous all-round equipment for life. Thus in 1892 (p. 41, report for 1892–3), out of 2,179 boys, girls, or mixed schools in Lancashire, only 67 taught elementary science, and only 197 taught any specific subject. If this was so in Lancashire, what could we expect of counties like Wilts, Somerset, and Suffolk, where

В	Boys' and Girls' hools numbered:—		Schools Teaching	
Scho	ols number	ed:	Elementary	
Wilts	383			18
Somerset	592			16
Suffolk	465			26
Lincoln	649		• • • • • • • • • • • • • • • • • • • •	7
Oxford	284			10
Herts	247			3
Dorset	296			2
Salop	338			4
Northants	332		•••••	3
	3,586			89

2. The Technical Instruction Act of course left the management of elementary schools untouched. 3. It gave no authority to the councils to deal with elementary school buildings, or to appoint a better qualified school staff. 4. It created one more set of school authorities instead of consolidating those now existing. 5. It made an artificial distinction between the education called elementary and that called technical, for, as we have seen, the subjects sanctioned under Section 8 of the Act of 1889 are similar to those set out in Schedule IV. for elementary schools. 6. The Act as it stood was optional, and depended for its operation upon the ratepayer, who is by no means in all cases an enthusiast for education. 7. Further, its limit of one penny in the pound did not promise well. an unexpected opportunity soon occurred of supplying its financial defects. Lord Salisbury's Government essayed to deal with the licensing question in 1890, and proposed to compensate publicans for the loss of their licenses. The Local Government Bill created a fund for this purpose by imposing new excise and customs duties on intoxicating liquors; but when the country had had time to consider compensation it was strongly condemned, and the Government hastened to withdraw it. At the same time, the scheme for raising

the money had received the sanction of the House of Commons and was now the law of the land. What was to be done? One man in Parliament did not hesitate. Mr. Arthur Acland, now (to the advantage of national education) vice-president of the Council, stepped into the breach and carried a motion that the moneys raised from the new customs and excise duties should be available for technical instruction. This decision shortly afterwards received effect in

THE LOCAL TAXATION (CUSTOMS AND EXCISE) ACT., 1890.

This important measure is now in operation, and will prove the first step in great changes affecting our school system. Practically it brought some part of education in thousands of parishes under the control of local government for the first time. It did not do this in the most systematic, effective, or economical way, but it recognised principles which are bound to have progressive application. It at least took technical education out of the groove of a penny rate and placed at its service some three-quarters of a million sterling per annum. This made a great difference. Education rates would have come up slowly in the counties. Out of 128 local authorities which came under the Technical Instruction Act of 1889, only 62 have yet agreed to raise a rate, and the proceeds of this rating for 1892-3 were only £26,000 * In the county of Lancashire Blackburn, Clitheroe, Heywood, Manchester, Nelson, Rochdale, Southport, and Stalybridge resolved to levy a rate, but Preston, Liverpool, Bury, Oldham, Ashton, Accrington, Bolton, Wigan, and other places, made no sign.

ANALYSIS OF LOCAL TAXATION ACT, 1890.

Section 1 (1) provides for police superannuation out of part (£300,000) of the new duties, and the distribution of the residue between county and borough funds. (2) Councils may vote such residue, or part thereof, to technical education over and above any amount raised by rate. (3) A county council may vote the money for technical education to town councils or other urban sanitary authority for this purpose. (4) The council for any county coming under the Welsh Intermediate Education Act, 1889, may apply towards intermediate and technical education, under that Act, both moneys received under the Local Taxation Act, 1890, and moneys raised under the Welsh Act before-mentioned.

Section 2 provides (1) that £40,000 of the Scotch share of the local taxation duties shall be for police superannuation; (2) that a sum of not more than £40,000 shall go towards free education in the compulsory standards in Scotland; and (3) that the residue, subject to the Pleuro-Pneumonia (Animals) Act, 1890, shall

^{*} Report of National Association for Technical Education, 1892-93, p. 6.

be distributed in aid of medical and sanitary supervision, or in relief of rates, provided, however, that councils may apply such residue to technical education within the meaning of the Technical Schools (Scotland) Act, 1887, in addition to sums paid under that Act.

Section 3 (1) (i.) devotes £75,000 of the Irish share of the duties to the Commissioners of Education in Ireland, to be distributed for the benefit of national schools in non-contributory unions, and to the guardians in contributory unions, subject to slight restrictions.

It is now our duty to consider two other important topics before we pass to the technical and manual education of foreign countries.

First, we will try to answer the question—What is technical instruction? Secondly, we will endeavour to exhibit the extent and chief forms of technical instruction in Great Britain and Ireland.

THE NATURE AND ENDS OF TECHNICAL INSTRUCTION.

WE should bear in mind that the word technical is not the only name given to the kind of instruction covered by the expression. "Manual instruction" and "industrial education" are also used. The first two names are used interchangeably in the Report of the Royal Commissioners on Education for England and Wales, 1888 (chap. iii., part 4, final report). The report gives a definition of technical education very similar to that of the 8th section of the Technical Instruction Act, 1889. It is as follows:—

By technical instruction we understand instruction in those scientific or artistic principles which underlie the industrial occupations of the people, including especially handicrafts, manufactures, mining, and agricultural labour, as well as the manual practice involved in the application of those principles. . . Instruction in drawing and elementary science is frequently and very properly regarded as part of technical education.

The Act of Parliament excludes the "teaching the practice of any trade, industry, or employment," but it will often be found impossible to avoid this when the principles underlying handicrafts are taught. It is certain that the leading object of many advocates of technical education is to improve the methods and products of industry, and thereby promote the growth of our commerce and wealth. That is a worthy and important end to keep in view. With the majority, it may appear to be the only end. But on this subject, as on others, there are conflicting schools of opinion. With some, manual instruction is desired on educational grounds alone. They tell us that it awakens intelligence in a boy or girl to be taught to work with the hands. They promote it, as they promote kindergarten, for its educative effect upon the child's mind and faculties. Froebel, in his "Education of Man" ("Die Menschenerziehung"), says:—

To learn a thing in life, and through doing, is much more developing, cultivating, and strengthening than to learn it merely through the verbal communication of ideas. Similarly, plastic material representation in life and through doing, united with thought and speech, is by far more developing and cultivating than the merely verbal communication of ideas. . . For the purpose of teaching and instruction is to bring ever more out of a man rather than to put more and more into him.

Pestalozzi, born in 1746 (37 years before Froebel), taught similar views of education, though he did not carry them to the same length of application. Instruction, he taught, should never stop with ideas, but the child should have corresponding impressions of the senses, and be furnished with means of observation and experiment. "What you can't do blindfold," he would say, "you can't do at all."

Some have objected to schoolroom and workshop being brought close together as intellectually lowering to the former. But this was due to misunderstanding, and hardly survives among avowed opinions. The educational as against the industrial argument for technical education has been very ably urged both in America and in Sweden. The view is taken in some of the best manual training schools of the United States that instruction in carpentry, wood-turning, patternmaking, iron chipping and filing, forge work, brazing and soldering, the use of machine shop tools, and other such instruction, is

INTENDED FOR MENTAL DISCIPLINE ONLY.

Work done in the shops is not for sale or profit, and is of value, as a rule, only as exercises. This has been very finely expressed by the director of the St. Louis Manual Training School, Mr. Woodward, † as follows:—

In a factory, intellectual life and activity is not aimed at; its sole object is the production of articles for the market. In a manual training school, everything is for the benefit of the boy; he is the most important thing in the shop; he is the only article to be put upon the market. . . We abstract all the mechanical processes and manual arts and typical tools of the trades and occupations of men, and arrange a systematic course of instruction in the same. Thus, without teaching any one trade, we teach the essential mechanical principles of all.

Generally, the object is to develop the mind, to start thought, and to train the executive faculty for useful action.

This ground has often been taken by those who are not anxious for technical schools to come into closer relation to handicrafts. Lord Armstrong was at one time, and perhaps still is, rather unfriendly to "technical education" in the latter sense. Head of the Elswick Works, and employing 13,000 men, he was entitled to an opinion on such a subject. That opinion was that "mobility, precision, delicacy of hand, should be cultivated by use of simple

^{* &}quot;Leonard and Gertrude."
† Report of the Pennsylvania Commission on Technical Instruction, p. 173.

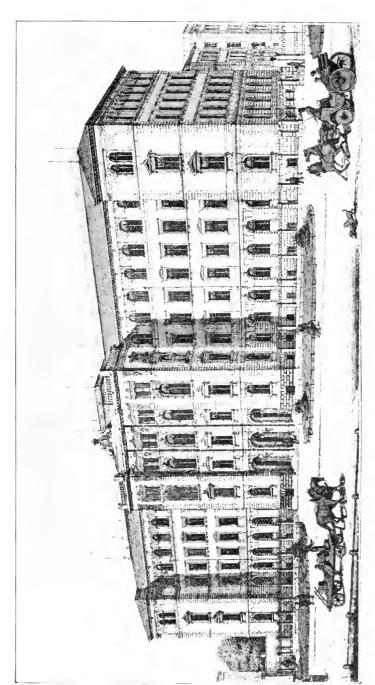
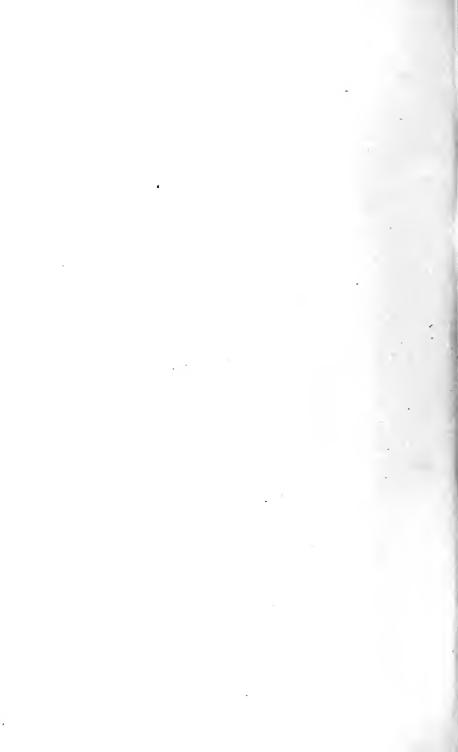


Plate 1.-The Higher Trade Institute, Chemnitz.



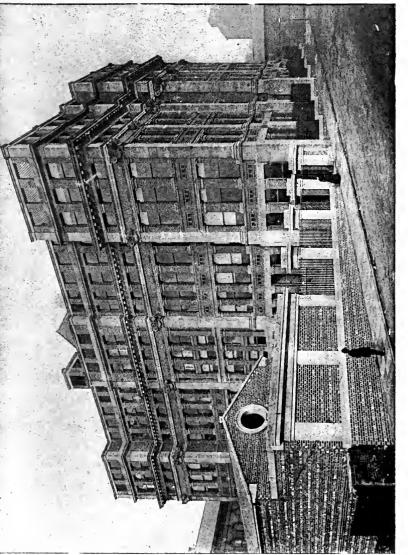
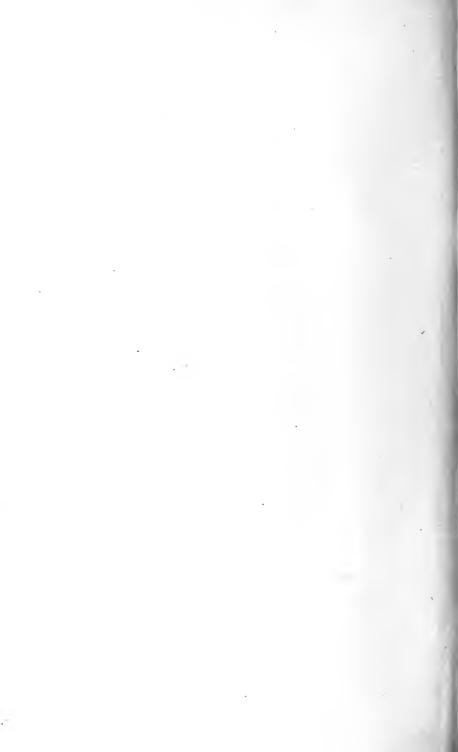


Plate 2.—Central Higher Grade School at Leeds.



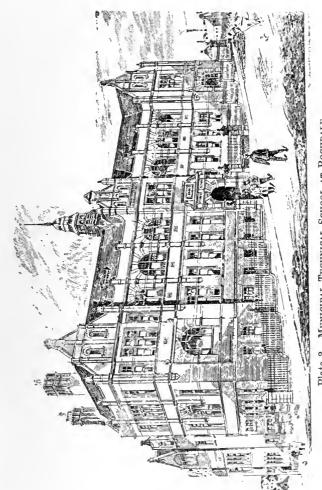


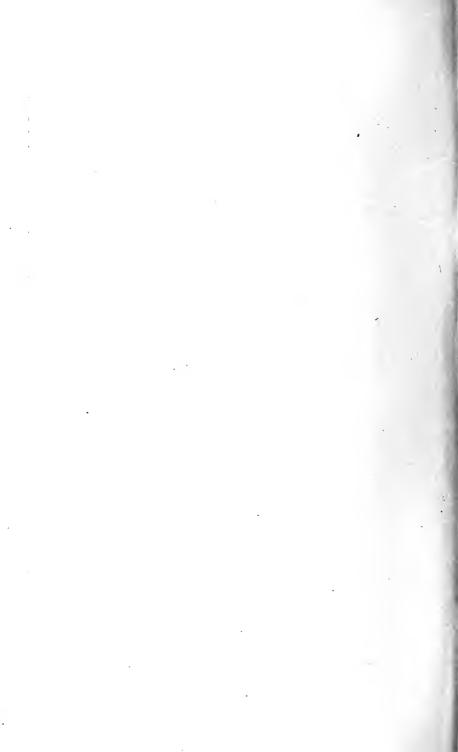
Plate 3.—MUNICIPAL TECHNICAL SCHOOL AT ROCHDALE.

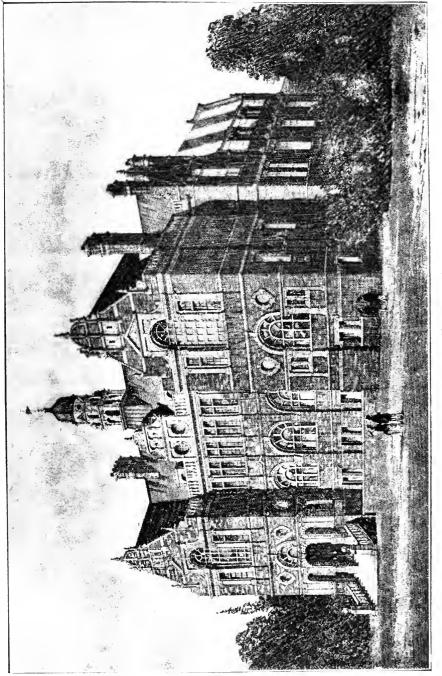


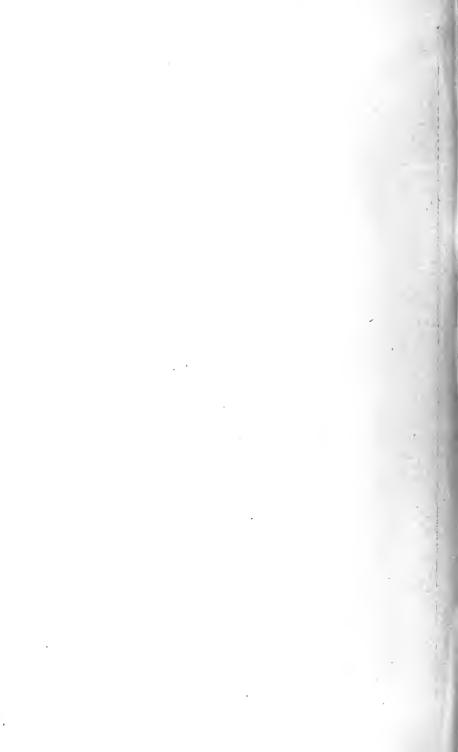
Plate 4.—THE POLYTECHNIC, STUTTGART.



Plate 5.—Proposed Municipal Technical School at Manchester.







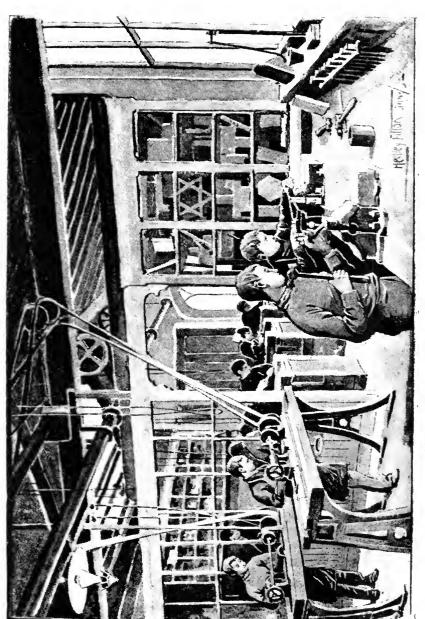


Plate 7.—Chethan's Hospital School, Manchester.



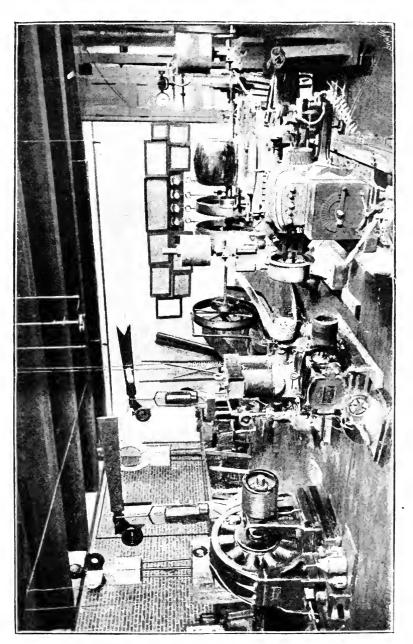


Plate 8.—Dynamo-Laboratory of the Massachusets Institute of Technology, Boston.





Plate 9.—Physical Department of the Zurich Polytechnic.



Plate 10,-Industrial Art School, Vienna.



Plate 11. National School of Industrial Arts Roubaix

tools, and this would give advantage in any work afterwards undertaken."* "To attempt to teach children special trades and processes of manufacture would, I conceive, be a mistake."† Lord Armstrong desiderated ability rather than knowledge. He said that he should have had around him a very different—"an incomparably less efficient—staff" if he had not chosen men for ability rather than for knowledge. He therefore looked to manual education as the means whereby "the hand, the eye, and the ear should be trained so as to make those organs more available as instruments of the mind."†

Doubtless an overwhelming case can be made out for manual and

technical education from this side.

But manual instruction can offer all sorts of pleas. It is important as helping the young to realise the dignity of manual labour, and to respect the labouring man. More of our best youth should live by mechanical industries. It is a common error to suppose that manual

labour is coarse, unintelligent, and unskilful.

It is, of course, not proposed that technical instruction shall stand alone. It can easily be combined with literary and other studies. It gives greater value to science and drawing by the light it throws on forms, materials, and processes. The handling of real things helps the appreciation of language. It conduces to clearness and simplicity of statement. It engages the energies of young people to good purpose, and keeps them from much misdirection. It lengthens the school course. It gives boys chances of distinction who would not excel in less objective studies. It prepares for the choice of a career. It favours invention and improvement. It will cure society of its contempt for the men of the workshops. It will raise the standard of comfort and taste in domestic life.

All this is true of technical education on its educational side. But that view is not the only, or the most prominent, conception of the

subject. We must also glance at the

VALUE OF TECHNICAL EDUCATION TO NATIONAL TRADE.

(See plate 1.)

This is being anxiously considered by thousands of able men concerned for the maintenance of our markets and commercial supremacy, but not less concerned for the prosperity of the immense industrial population of England as bound up with that supremacy. Few, perhaps, will agree with Lord Armstrong that technical education is likely to prove of value only to a small proportion of the workers, and these chiefly experts and supervisors. It is reasonable to believe that the early training of ear, hand, and eye in various occupations must re-act favourably upon the skill, taste, and excellence of all kinds of workmanship. Why there should be any

quarrel between the pedagogical and the economical schools of technical education, the average man will probably find it Trained faculty must lead to better workmandifficult to explain. ship. If it will develop the mind for a scholar to learn the difference between a ripping and cross-cutting saw, and to make through mortise and tenon, polished mortise and tenon, double mortise and tenon, &c., it will surely equally help mental development for a scholar to produce an article in paper, cotton, clay, wood, or iron, not necessarily for sale, but such as would command sale if put on Abstract mechanical operations are involved in the regular industries, and the latter will confer many of the benefits of the former, with some advantage superadded. Sir Lyon Playfair would teach specific trades and industries. But whichever policy is acted on, educational value will attach to specific industries, and an industrial value will attach to general practice with tools, such as hammer, mallet, chisel, gimlet, centre-bit, brace, screwdriver, compasses, square, marking-gauge, jack-plane, &c.

It must not be forgotten that a degree of industrial efficiency which sufficed for one state of circumstances may not be adequate at

another time.

INDUSTRIAL SUPREMACY NOT NECESSARILY PERMANENT.

Conditions may favour a nation at one epoch which are more equally shared with its neighbours at another. Some features of a country abide and confer permanent advantages of climate, mineral wealth, geographical position, seaboard, and other things; but the volume of a country's trade is affected by things which are not laws of nature. Political troubles may throw a nation behind in the race, but peace may return and send it forward as a competitor with the best. This has happened with some continental countries. While they were the scene of the long Napoleonic wars, England tilled her fields, took high prices, and developed her manufactures with scarcely a rival. But peace, order, and the needs of growing populations, and, above all, superior education, have made them powerful candidates for the commercial favours of the world.

We shall now endeavour to exhibit the forms and progress of

technical education in the chief countries of the world.

ENGLAND AND WALES.

THE energy and inventiveness of the English people, have fitted them for the leadership of the trade of the world. The great accumulation of capital in their hands, and the long exemption of the soil of England from the ravages of war, have also immensely facilitated that supremacy. Foreign nations waited their time, and when it came took the best means to improve their position. The two chief forces that have contributed to their rapid advance

have been thrift and education. Of course they have copied English methods and improved upon them where they could. that some countries have of late decades been going forward at a more rapid rate than ourselves, and that we have lost some domestic markets and are sustaining keen competition in markets far distant. It is also evident that the best educated nations are precisely those which are running us a close commercial race. Germany has imported English machinery, engaged some of the best men from English shops, and prosecuted the scientific and technical education of her people to such an extent during the last thirty years that her progress has been marvellous. Englishmen were made use of in the founding and extension of engineering and machine shops in Germany, but now it is a rare thing to find Englishmen at the head of German workshops. That country is raising its own managers and sending not a few men, scientifically well equipped, to take leading positions in England. For all that, English mechanical genius, natural advantages, and freedom from the incubus of a military system such as Germany's, will stand her in good stead if she looks well to the education of her people.

Technical education presupposes good general education as its basis, and we have seen that this is lacking in many parts of England. An illustration of this, as far as Lancashire is concerned, is furnished in the Report of the Technical Education Committee presented to the Lancashire County Council, on August 3rd, 1893. The Council had offered 100 exhibitions for proficiency in science during the past year, together with 25 in art, and 25 in commercial subjects, but much disappointment was caused by the small number of candidates entering. For science, only 44 entered, and only 23 of the 100 exhibitions in that subject were awarded. There were more numerous entries for art and commercial subjects. Mr. Alderman

Snape, M.P., remarked that—

He was compelled to conclude that the primary schools of Lancashire were extremely defective in the science teaching which was given, and this idea was confirmed by the most recent report of the Education Department. What was most wanted was a properly organised system of education in the day schools as well as in the evening schools of the country.

KINDERGARTEN PREPARATION.

ENGLAND has reason to be proud of many of her infant schools, and it is agreed by educationists that ear, hand, and eye training should be given in infant schools. The handling, counting, and grouping of solid objects, and the distinguishing of colours and sounds, form an easy preparation for the more difficult manual exercises of later education. The Education Code offers for infant schools a variable grant of 2s., 4s., and 6s., dependent on (1) suitable instruction in the elementary subjects; (2) simple lessons on objects and on the

phenomena of nature and of common life; and (3) appropriate and varied occupations (Art. 98, C.). The number of infant scholars on the registers last year (1892) was 1,764,930, and there would be great advantage in that number being taught the "appropriate and varied occupations" of kindergarten. It would appear, however, that the 6s. grant was earned for but 556,104 infant scholars in average attendance out of a total average attendance of 1,180,782 (Table No. 1, B. Report for 1892-93), a fact which suggests that object lessons and kindergarten are not yet well taught in many infant Manual training and kindergarten are near akin in their fundamental principles; both tend to develop a scholar's faculties and aptitudes by cultivating the sense perceptions and imparting correct ideas of form, and both test those perceptions and ideas by calling for their embodiment in tangible material. Froebel, like Mr. Herbert Spencer, urged that the teacher should proceed from the individual to the general. To put it in the words of the former—

The teacher should make the individual and the particular general, the general particular and individual, and elucidate both in life; he should make the external internal, and the internal external, and indicate the necessary unity of both.

Froebel sought to do this by his system of instruction called "gifts and occupations." The Gifts, by which he sought to give the child objects to perceive and arrange, were (1) bodies—balls, cylinders, divisible cubes of several kinds; (2) surfaces—squares and triangles; (3) lines—straight or circular; (4) points—seeds, pebbles, &c.; (5) reconstruction—the construction of lines with points and so on back. The Occupations, by which he sought to give play to a child's powers of intelligent control and adjustment, were (1) solids—plastic clay, cardboard work, wood-carving, &c.; (2) surfaces—paper folding, paper cutting, parquetry, painting, &c.; (3) lines—interlacing, intertwining, weaving, thread games, embroidery, drawing, &c.; (4) points—stringing beads, buttons, &c., perforating, &c.

In the supplement to Schedule II, of the Code (1892) is an excellent arrangement of thirty object lessons on nine subjects. The subjects may appear formidable from their names, but the lessons placed opposite them show admirable adaptation to the standards. There are six schemes of lessons for the seven standards. We subjoin two examples of the object lessons for standards I, and II.

Course D.—Principles of Agriculture: Thirty object lessons, e.g., the usefulness of the various animals kept on a farm and how they repay kindness and care; bees; earthworms; a grain of wheat; hay; work in a forge; the work of a farm in different seasons; gardening; garden tools.

a farm in different seasons; gardening; garden tools.

Course F.—Sound, Light, and Heat—e.g., bell trumpet; tuning fork; sunlight; primary colours; candle; a fire; boiling water; red-hot poker.

These lessons would form the next stage to the kindergarten in practical education if only the elementary schools were compelled to teach them on pain of losing Government grants.

Primary schools in England have opportunities of giving technical

education which they never had before.

Manual instruction, science, practical cookery, and laundry work (for girls over standard III.) are now recognised by Art. 12 (f), and attendance at such instruction is an attendance for payment whether or not it is given in the school premises or by the ordinary teachers of the school. The pity, of course, is that these subjects may be neglected at the discretion of the managers, or manager, without affecting the claim of a school to be classed and paid as an efficient school.

DRAWING.

Drawing, too, has been made compulsory for boys. Not quite, however, for where the inspector "certifies that means for teaching drawing cannot readily be procured," the rule of Art. 85 (b) falls to the ground. Our codes are still framed to secure grants for schools that are scantily taught. Out of 90,794 girls taught cookery, 66,532 were in board schools; and out of 2,766 girls taught laundry work, 2,423 were in board schools. Last year a grant of 1s. for drawing was paid on an average attendance of 394,425 boys. Drawing may fairly be classed as a form of manual or technical training, for it lends delicacy to the fingers, makes perception more exact, and aids the sense of elegance and beauty. Drawing is now examined by the Science and Art Department.

The Commission on Technical Education recommended (1) that drawing be incorporated with writing as a single subject, and continued through all the standards; (2) that no school receive public money unless supplied with casts and models; (3) that modelling should be made a subject on which grants could be earned; (4) that art should be well taught in training colleges; and (5) that the inspectors of the Education Department be made responsible for

instruction in drawing in elementary schools.

ITINERANT SCIENCE DEMONSTRATORS.

LIVERPOOL, Manchester, Birmingham, Nottingham, and other places have for years employed such special teachers, and their work is a valuable preparation for technical education. They go from school to school, giving science teaching in such subjects as magnetism and electricity, physiology, mathematics, hygiene, machine construction, or chemistry. Models, apparatus, and experiments are freely employed, and the interest of the scholars is kept at the highest point. Each school for older scholars receives a weekly or fortnightly lesson. The regular teachers of the schools enter heartily into the work of the peripatetic instructor, being present at the time, and going over the subject of the last lesson with their scholars in the intervals of

his visits. The apparatus is kept at a central laboratory, and wheeled to and from the schools in a light handcart by the demonstrator's porter. In some towns non-board schools partake of the instruction on contributing their proportion of cost. Organised science schools are sometimes opened at certain schools as centres, and placed under the charge of the science demonstrator. The Nottingham School Board employed in 1892 no fewer than five of these peripatetic teachers, with five porters, and four woodwork As the result, this excellent board obtained in 1892-93 no fewer than 6,192 passes in specific subjects (including cookery and laundry work); 1,500 attendances were made at its woodworking classes (including seven deaf mutes and 40 teachers); there were, out of 1,248 papers worked, 387 science passes in the first class, and 768 in the second; 44 first results in art, and 109 seconds; and 7,592 scholars were under the instruction of the science demonstrators. Particulars of other boards might be given did space permit.

HIGHER GRADE SCHOOLS.

Secondary Education is one of the maturing subjects of our day. The Education Department is already to some extent associated Its approval is required before any scheme for an endowed school can take effect after having been framed by the Charity Commissioners, and its action is a needful preliminary to the distribution of the grant of £15,000 annually made to the university Mr. Acland has appointed a departmental commission representing the three Government departments concerned with secondary schools, viz., the Charity Commission, the Science and Art Department, and the Education Department, and the sittings of this body since 1st December, 1892, ought to bear fruit in some measure for bringing higher or secondary schools within reach of the population. It is admitted (Report of Education Department, 1892-93, p. 6) that higher education can be given by school boards, and is in some cases already being given. We have just glanced at one example out of several in the Midlands. London, Manchester, Birmingham, and Leicester are doing what Nottingham has done, and every great school board is, or could be, working on the same The smaller school boards are only disabled by the optional character of the code curricula, and by the fact that the country districts and Lancashire are practically, with some noteworthy exceptions, not under school boards at all. What can be done for secondary and technical education under the code may be seen in the

LEEDS HIGHER GRADE SCHOOL.

(See plate 2.)

Nowhere on the Continent could a finer municipal school be found. It is secondary, but it is in close touch with the elementary

schools. Lads have matriculated at London from its classes. accommodates from two to three thousand scholars. By examination and merit scholars may have free education in it, but for a shilling a week parents may obtain an education such as many are trying in vain to get by sending their children scores of miles from home at a cost of £40 to £100 per annum. The laboratory, the music class room, the gymnasium for each sex, the workshop, the science master, the dressmaking class, the art school, the drill ground, may all be found there at the service of several thousand scholars, who are as bright and promising as could be found anywhere in Europe. Friends of secondary education who want to see the high school grow out of the primary school could not do better than ask Mr. Packer, the clerk of the Leeds Board, to show them over the school or post them some particulars of its organisation. schools and technical education will do little for England unless they can be brought close to the people, and made an organic part of a public system.

The Central Board School at Sheffield is another splendid example. Here ordinary and special subjects have been taken together, and cookery, drawing, German, school workshops for wood and iron, and models and apparatus for the experimental illustration of mechanical principles, have done much to meet the demand for higher education at moderate cost in that great town, where technical aptitudes are as important as in any town in the world. It could never be said that a lad who had gone through such schools was unfitted to profit by special technical teaching under the Act of 1889. Mr. Snape's remarks in the Lancashire County Council are called for by the lack of day schools of this class in most parts of England, and by the early age at which the mass of children leave school even in the neighbourhoods where day and evening classes might prepare them for county exhibitions and scholarships in

technical education.

The provision of secondary schools ought certainly to be entrusted to school boards. These bodies have applied the Education Code with great ability and liberality to higher grade education, and to set up another authority charged with this duty would be bad policy. Bodies that can supervise such higher grade schools as we find under boards in England and Scotland ought not to be superseded. At an important conference of friends of secondary education and representatives of school boards held in Manchester, March 21, 1893, the Secondary Education Bill for England (introduced by Mr. Arthur Acland, Sir Henry Roscoe, and Mr. Henry Hobhouse) was sharply criticised because it devolved the whole duty of supplying or aiding the supply of secondary schools upon councils of counties and county boroughs. The conference demanded that there should be

one local authority in each district, having the management of elementary, secondary, and technical education, so far as aided from local rates, that this authority should be elected solely for educational work, and that school boards should be universally established for this purpose.

THE SCIENCE AND ART DEPARTMENT CLASSES

HAVE done more than any other agency, until very recent years, to teach science to artisans, and thus to raise the intelligence of labour. The Royal Commission on Technical Education recommended various improvements in the policy of the department, some of which have already come about by legislation or code changes. They were—

(1) That local authorities should be allowed to conduct classes for young persons and adult artisans under the department. (2) That science teaching should be more practical and better paid for in the 'advanced' and "honours' stages. (3) The sub-dividing of metallurgy and mining. (4) Better inspection of teaching and apparatus. (5) Larger building grants for schools of science and art than £500.

In England day technical schools are not much known. The convenience of the workmen calls for evening classes. Numerous evening classes for science and technological study have been carried on for years past, and credit is due to them as forming a foundation upon which the larger work of county technical education is being reared.

THE CITY AND GUILDS OF LONDON INSTITUTE

FRAMED a scheme of technical teaching not unlike that of the Science and Art Department, and gave aid to localities by organising classes and making capitation grants. It required teachers of these classes to be qualified in theory and practice, to hold a certificate of honours granted by the Science and Art Department or by the Institute, and to have filled some place of responsibility in the industry that was the subject of instruction.

THE CO-OPERATIVE SOCIETIES OF GREAT BRITAIN

HAVE from their foundation been earnest promoters of education in the sciences and in technology. In 1890, the amount of their profits devoted to education was no less than £27,587, a sum nearly twice that of the Government grant to university colleges at the present time. Before the county councils began their educational work under the Technical Instruction Act, 1889, the co-operators of the North of England—beginning at Rochdale, the cradle of the co-operative movement, where a municipal technical school (see plate 3) is now in successful operation—were doing a modest but substantial work in their evening classes. In Lancashire, where the

co-operative movement has attained so remarkable an extension, there are many evidences of this activity. The Accrington and Church Co-operative Society has spent £400 a year on education, and has taught building construction, machine construction, practical geometry, and inorganic chemistry (theoretical and practical). In 1891–92 there were 292 students in science, art, and technical subjects. A grant of £120 was made by the County Council in 1892.

At Darwen, 99 students attended the co-operative society's classes in building construction, machine construction, geometry,

botany, and art, in 1891-92.

At Eccles, the co-operative classes were held in carpentry and joinery, shorthand, cotton spinning, cotton weaving and designing, steam, applied mechanics, dressmaking, brickwork and masonry, in addition to the subjects named above. The number of students entered was 682.

The Failsworth Society has for over ten years held classes in science and technical subjects, and the County Council Committee voted £100 in 1891–92 towards the cost of new subjects of instruction and apparatus; 297 students attended, in addition to 84 at the

sick nursing class.

In Heywood the science and art classes of the co-operative society were the only classes of the kind in 1890, and the society has expressed its willingness to merge its classes in a proposed new technical school for the borough. In almost every case these societies have offered to place their work, apparatus, and educational funds at the service of the county committees.

The Radeliffe and Pilkington co-operative classes studied organic chemistry, machine construction and drawing, brickwork and masonry, carpentry and joinery, cotton weaving, and other subjects, for fifteen years. Four hundred students have passed through the

classes, and £300 has been spent.

In the fifteen county boroughs of Lancashire, viz.:-

Liverpool, Manchester, Salford, Oldham, Blackburn, Bolton, Preston, Burnley, Rochdale, St. Helens, Stockport, Bury,

Wigan, Barrow-in-Furness, Bootle,

the co-operative movement has been very fertile in educational organisation. Some of the societies are making arrangements to merge their work in the technical schools of the corporations, while others are modifying their plans to meet the new conditions.

At Rochdale, the Equitable Pioneers, the founders of the movement, have availed themselves of the Migratory Dairy School of the Lancashire County Council to conduct classes in that subject, and in other ways are maintaining the reputation of their society for interest in mental and social improvement. It is not likely that the

education grant of the co-operative societies will come to an end because the county councils have got hold of the lucky windfall of three-quarters of a million from the local taxation accounts.

HIGHER TECHNICAL INSTRUCTION.

We have looked at English technical education so far chiefly in connection with elementary schools, or as it is seen in the evening classes organised previous to the Act of 1889; but it is manifest that provision of a more elaborate kind is needed, either in special schools or in the secondary schools. The day will come when all the celebrated schools to which English youths go to be prepared for universities, for the learned professions, for public life, and for literary pursuits, must also prepare for superior technical work. It is of importance to the country that the children of the "middle class" should have this education. Higher technical instruction is also required for first-class workmen, managers of departments, heads of businesses, merchants, and distributors. The schools in question should admit pupils at about thirteen years, for perhaps a three years' technical course. A specimen of what is wanted will be found in the *Ecole Professionelle Municipale* of Rheims, the plant in which cost £20,000.

The Technical Department of Firth College, Sheffield, or of University College, Nottingham, are cases in point. Every large town in England ought to have a school of this kind, and there is

now a good prospect of it.

Some of these seats of higher technical instruction would be general in scope, preparing pupils for manufactures, mechanics, commerce, or agriculture (at least in the later part of the course) according to their aptitudes. Others would prepare for one industry only, like the Building Trades School at Stuttgart, which admits at fourteen years. (See plate 4.) We have as yet nothing like it, not even in such centres as Manchester. The projected

MUNICIPAL SCHOOL FOR MANCHESTER (See plate 5.)

WILL be a credit to that city. It is to be erected on a site of 5,800 square yards, all but 773 of which is the gift of the Whitworth legatees. Provision will be made for mechanical, electrical, civil, and sanitary engineering, the chemical industries, spinning and weaving, building trades, letterpress and lithographic printing, industrial art and design, commercial and domestic economy subjects. The total available floor space will be 150,000 square feet, exclusive of continuous corridors of fine construction that are to be utilised for illustrative exhibits of all kinds of great value to the students. An industrial museum, a gymnasium, a public lecture hall, a chemical

laboratory for eighty students, will be in addition to many class, drawing, designing, and lecturers' rooms and workshops. basement will be placed the electrical engineering workshops and testing tables, dynamo house, electro-chemical and technical testing laboratories, secondary battery room, rooms for optical, photometric, magneto-metric, and spectroscopic operations, the mechanical engineering workshops and testing laboratory with its experimental steam engine and large and small testing machines, the spinning and weaving rooms for cotton, silk, and other fibres, bleaching, dveing, printing, and finishing rooms, plumbers', bricklayers', and masons' workshops, shops for repairs and construction of new appliances, woodworking machinery. The building will be lighted by 2,000 incandescent electric lamps. Its cost, including all fittings and machinery, will be £125,000, towards which the committee of the City Council subscribe £50,000 available from gift, profit, and property, and the rest will be borrowed for a period of thirty years on the security of the penny rate authorised by the Technical Instruction Act, 1889. The governing body will be a committee of thirty-six members, twenty-four from the City Council and twelve chosen from the Such a school will be one of the finest and earliest outside public. of the fruits of the legislation of 1889 and 1890.*

The splendid technical schools connected with some few private firms in this country deserve a tribute of admiration. It would be hard to estimate the benefits to our national industries which have flowed from such great work-schools as those of Lord Armstrong at Elswick, the L. and N. W. Railway at Crewe, Mather and Platt at Manchester, and Bullough's at Accrington. Mr. Mather has given his opinion that the school has been of incalculable

advantage to the works.

The Oldham School of Science and Art deserves recognition as a capital example of what schools for apprentices might be made by good teaching, good laboratories, and a great evening technical school, with large scientific and mechanical scope.

WEAVING SCHOOLS.

In all the countries visited by the commissioners, attention was given to this branch of technology. It may be said that a factory is the best place in which to learn weaving, &c., but the factory, as a rule, offers a range of operations much narrower than the school. A factory may teach a man only a small part of an industry. For heads and managers, picked men and foremen especially, a wide acquaintance with an industry is better than expertness in one of the operations into which the great industries are divided.

^{*} J. H. Reynolds, p. 90, "The Record" (Technical), November, 1892.

The cotton industry of Lancashire is broken up beyond comparison. Yorkshire is intent on wool, and gives few thoughts to cotton. Bradford thinks of worsted, Leeds of woollens. The commissioners point out that a mill in Bradford may be for wool-combing and nothing else; another may spin two or three counts of yarn; a third weave one class of goods only. An apprentice may learn all that is to be learned in one of these factories, and yet may know little of the worsted manufacture. A general knowledge of textiles can be

obtained in no factory, hardly in any one town.*

The men who direct an industry and the men who ply a trade ought to have some idea of what the world wants, and ability to meet the world's wants and tastes is as valuable as low price and wearing quality. A large acquaintance with the bases of an industry and power of adaptation are more likely to be gained from school and factory combined than from the latter alone. Design is particularly important; it helps to sell cloth as it does to sell pottery and porcelain, glass, furniture, and metal work. The wool-comber, the spinner, the weaver may do his part well, but without satisfactory and pleasing design they are like a railway train that carries unattractive and tasteless fruit to market. High speed and safe delivery will not assure ready sale.

IN BRADFORD AND LEEDS

WE have the Technical College and the Yorkshire College, and these are entitled to rank with the weaving schools of Germany. The Bradford College has a syllabus of which that great town may be proud. It has—

I. A Day School Department, which prepares youths for industrial, manufacturing, and professional pursuits.

II. An Evening Science School, which adds electrical engineering, steam, book-keeping, and shorthand, and includes London matriculation classes.

III. Art Department.—The usual four subjects. Light and shade (painting flowers and objects of art), the human form (antique and life), drawing and

design class, architectural class, wood carving.

IV. Chemistry and Dyeing Department.—A two years' course, including chemistry, technology of textile fibres and mordants, practical qualitative analysis, chemical physics, organic chemistry, the natural colouring matters, experimental dyeing, the coal tar colours, mechanics and machinery applicable

to dyeing and printing, &c.

V. Textile Department.—The loom: Elementary principles of weaving, simple patterns upon design paper, drafting, the healds; practical weaving, more elaborate patterns, combination and rearrangement, calculations for yarns and fabrics, designs for fancy goods, dobbies and wytches; the Jacquard machine, and simple figures formed by weft, by warp, or both; double cloths, figured double cloths, triple or multiple cloths; designing for elaborate fancy goods, gauze fabrics, figured gauze, velvet and pile fabrics generally. Classes are held for the study of cloth structure and analysis, and of colour.

VI Engineering Department.

^{*}Second Report of Commissioners on Technical Instruction, vol. i., pp. 119–122.

This is fitted with every requisite for a three years' course, followed, if need be, by a special course. Drawing offices, lecture rooms, and workshop are provided, the last furnished with the most modern type of machine tools and appliances, such as a 12-inch treble-geared break lathe with bed 32 feet long, planing machines, slotting, milling, cutter-grinding, wheel-grinding, and other machines, with smith's hearth, pneumatic power hammer, circular saw, &c. High-class work is turned out in steam engines and tools. Certificates of proficiency and prizes are granted annually, and the college diploma in mechanical, civil, or electrical engineering and in architecture is granted to students passing in the complete course.

The Durham College of Science is another noble institution, and under its distinguished principal, Prof. W. Garnett, it is offering to the northern counties rare and varied opportunities for technical

education.

Our special technical schools are not equal to those of more general character, but improvements are flowing in. We need the best, not makeshift schools, but have been slow to grasp the real dimensions of the work. It would be highly injurious to have a number of ill-organised and ill-supported voluntary institutions. Schools with a large staff, each member of which is expert in his own province and is well paid for his sub-division of the work, are what England needs for the great centres and neighbourhoods.

The City and Guilds Institute undertook some few years ago to provide London with intermediate technical schools, and it has not forgot its word.

TECHNICAL EDUCATION IN LONDON

is of immense importance, the metropolis being the greatest manufacturing as well as the largest inhabited town in the world. When we reflect that the men and boys in its various trades are as follows,* (see page 462) and when, further, we give due weight to the fact that in certain highly-skilled arts and handicrafts alone there are engaged in London 54,551 men and 5,764 women (of course included in following total), we shall better realise the urgency of the question before us. How to help this unparalleled aggregate of busy workers to reach a higher level of taste and manipulative skill in their callings is no mean part of the national problem—how to keep England employed and in the forefront of the world's industry. Towards this end the City and

^{*} Census figures quoted by Mr. Llewellyn Smith in his admirable Report to the London County Council on Technical Education, p. 88.

Building trades	135,805	-1163
Engineering and metal trades	53,134	
Wood and furniture trades	60,209	
Fancy trades	31,656	-710
Paper, &c., trades	5,124	0.00
Textile trades	7,981	
Chemical, glass, and pottery trades	18,028	
Printing trades	46,099	hande.
Clothing trades	77,712	10.71820
Food, drink, and tobacco trades	98,303	7-10
Shopkeepers and dealers	30,201	more a
Commercial (including 80,699 clerks)	100,573	F-14-2
Labourers for road, rail, and conveyance	277,969	
Navigation	18,095	1111
Public administration	47,081	-01
Professional	54,093	100
Domestic and extra service (excluding females)	47,436	
Domestic and casta service (excitating lemanes)	11,100	11/2
Total	1,109,499	1000
Same trades:	1,100,100	12
Dame trades:	150,000	Secretal Property
Boys (under 20 years old)	178,088	
Women and girls	591,932	
Girls (under 20)	148,888	
. Grand total	1,819,007	1.717

Guilds of London Institute have done more than any other body. Their work began after an inquiry conducted by such eminent names

as Armstrong, Galton, Donnelly, Huxley, and others.

There is a Central Institution, Exhibition Road, where teaching of the highest kind is given in applied physics, mechanics, and chemistry, suitable for directors and managers of industry. In 1891-92 there were 314 students in the wood-carving school. £90,000 has been spent on the building, and it costs £12,000 a year to carry it on. Each student costs about £60, but the fees are only £25. The institute maintains a sort of university rank, and requires no aid from the London County Council. The Physical Department is under the direction of Prof. W. E. Ayrton, F.R.S., the well-known authority in electrical technology, who was President of the Institution of Electrical Engineers in 1892. The Mechanical, Engineering, and Chemical Departments are admirable. Ayrton's Department is, however, specially noteworthy for its three electrical research laboratories, dynamo-room, testing laboratory, and the heat, optical, magnetic, and acoustics laboratories, mainly for junior students.

There is an Intermediate Technical College at Finsbury for systematic teaching of boys from 14 to 18. The day school has 185 students—48 in the mechanical department, 99 in the electrical, and 38 in the chemical. The three professors are all Fellows of the Royal Society. Ten of the students have come from elementary

schools. This is the only purely technical intermediate school in London. The evening classes had over a thousand students, 334 of whom were apprentices (in 1891) admitted at half fee. The school of electrical engineering at Finsbury is of wide renown, and in the evening classes there are 400 electrical engineers or their employés and apprentices.

University College has departments of engineering, chemistry, and electrical technology. New electrical and engineering laboratories are being built, in addition to a new physical laboratory. The Slade

School of Art is associated with the college.

King's College is sectarian, its regular students and all its officers and professors (those of modern and oriental languages alone excepted) being required by the charter to belong to the Church of England. But its technical and scientific work is extensive. There were some 800 to 900 students enrolled in the various classes in 1892. The evening classes are numerous, fourteen being technical. Lady Siemens gave an electrical laboratory, accommodating ten students at work, and costing £6,000.

There is a proposal for endowing with £10,000 the technical work

in a teaching university for London.

THE LEATHER TRADES SCHOOL,

IN Bethnal Green, situated in the East London colony of shoe-makers, teaches hand and machine made work in all branches.

POLYTECHNIC INSTITUTES

ARE springing up in London. They are not like the polytechnics abroad—science universities—but places of evening recreation and instruction for persons at work during the day. No fewer than twenty schemes for these institutes have been passed or framed, and there is a central governing body, as well as a body of governors for each institution.

The Regent Street Polytechnic is the oldest, and has been carried on for many years at the expense of Mr. Quintin Hogg. The annual expenditure is £16,000, of which £9,000 is raised from fees. An enormous number of students are enrolled. Nearly 600 entries are recorded in art, over 1,000 in science and nearly 2,000 in technology. The fees are in most subjects 5s. per session. All kinds of technical work are taught, as follows:—

Plumbing	211	students.
Builders' quantities		
Tailors' cutting		
Printing and paper		
Engineering trades	757	,,

The Goldsmiths' Institute, for technology and recreation, has been erected at New Cross, at the cost of the Goldsmiths' Company, and was opened for work October, 1891. Its cost was £80,000, and it is endowed with £5,000 per annum. There are 51 heads of departments in the institute, and considerably over 9,000 entries for study in all aleases 7,378 exercises and 2,142 assessment.

in all classes, 7,378 quarterly and 2,143 sessional.

The People's Palace Schools are kept up by the Drapers' Company, and besides art and science, the technology of building, bricklaying, carpentry, plumbing, steam boiler design, machine construction, surveying, tailors' cutting, typography, &c., has been taught to hundreds of students. Besides these there are the Battersea Institute, the Borough Road Institute, the Chelsea Institute, the North-West London Institute, the North London Institute, and the City Polytechnic. London is not wanting in the number of institutions giving part of their time to technical work. There are

The Bow and Bromley Institute.

The Guild and School of Handicraft.

Whitechapel Craft School.

North London and Borough of Hackney School of Science and Art.

Highbury Institute.

Working Men's College.

Westbourne Park Institute.

Onslow College, Chelsea.

Westminster School of Art.

Woolwich Polytechnic.

Lambeth School of Art.

25 1 25 1 1 0 11

Morley Memorial College.

Telegraphists' School of Science.

St. Thomas's Charterhouse School of Science and Art.

British Horological Institute.

Birkbeck Institution (branch of City Polytechnic).

SCIENCE SCHOOLS IN LONDON.

There were in 1892 no fewer than 200 science schools aided by the Science and Art Department, including day and evening schools and schools of science attached to elementary day schools.*

ART SCHOOLS IN LONDON.

There are some 5,000 students in the district schools of art in London. The importance of art as a technical subject is self-evident. Drawing and painting are not the whole of art, for it concerns industries and handicrafts, and the materials in which they are carried on. It is necessary, therefore, to join art education to technical education as parts of one whole.

^{*} Report to London County Council, p. 175.

There are the "special" schools of art, such as the Royal Academy, the Slade School, and others. Then there are some twenty "Government schools of art," some of them departments of the large

technical institutes at which we have glanced.

The Westminster Architectural Museum School has over 400 students, 366 of whom are studying from the life. This stands first, its students in many cases being already draughtsmen, black and white designers, modellers, and architects or architects' pupils. The Polytechnic School of Art has 800 pupils, but its work is not so superior. At the Bow and Bromley Institute art classes in drawing, 44 pupils were teachers out of a total of 87. In the painting (still life, &c.) classes of sixteen schools, out of 901 pupils 230 were teachers, 352 "of no occupation," and 101 pictorial artists. Only 250 students were learning design, London being far behind the provinces in this respect. Chromo-lithography is taught at the Royal Female School of Art, Bloomsbury; and tapestry painting, fresco and sgraffito work, furniture making, and repoussé metal work are taught at the Finsbury College. Wood-carving has its chief seat at the Institute of British Wood-carvers, supported by the Carpenters' Company, but drawing and design are not associated as closely as they might be either with this or any other form of handicraft teaching. The School of Art Wood-carving at South Kensington, a carving class at King's College, and some classes held by the Home Arts and Industries Association, are also operating with effect. handicraft and art work should always be combined.

There are 110 art classes connected with the Science and Art Department, viz., 36 under the school board, 10 in secondary schools, 12 in voluntary elementary schools, 14 in pupil teachers' centres, and the remainder independently conducted by committees. Seven hundred children are receiving art teaching from special instructors in board day schools north of the Thames. Every London board school now built includes a specially constructed "art" room. It is proposed to make generous grants for art teaching from the

educational funds of the London County Council.

The Commissioners on Technical Education pointed out that English drawing is accurate, but wanting in originality and boldness. They held that the Royal Academy and the Livery Companies should directly encourage design. They quoted from Sir Edward Baines and Mr. W. Morris the opinion that while in appreciation of beauty and love for beautiful lines and colours the English equal the French, the "discipline of the creative faculty is far inferior" in England. They record an interesting story of an English firm that took a Paris Exhibition prize in 1878 for a cabinet designed by a Frenchman, for which a German had cut the marqueterie and a German assisted by a Dane had done the work of a cabinet-maker. The

Commissioners recommended the establishment of schools and galleries of industrial art, and especially museums of textile fabrics; the removal of the limit of expenditure under the Free Libraries Acts; and other useful changes.

THE NEW DEPARTURE IN COUNTIES AND COUNTY BOROUGHS.

We must now briefly exhibit the operation of the Technical Instruction Act, 1889, as supplemented by the Local Taxation (Customs and Excise) Act, 1890. This legislation has put a new face on the prospects of practical education in the country, although it is essentially incomplete, and must be followed sooner or later by consolidation of the over-lapping school authorities of the country. (See plate 6.)

The County Councils and County Boroughs of England and Wales all at once found themselves possessed of an income of some £750,000 a year, and enabled to raise a rate besides, for technical instruction. They soon made up their minds what to do with nearly all of the money. It was in their power to apply it to relief of local rates, if they preferred, but they have done otherwise.

APPLICATION OF LOCAL TAXATION RESIDUE TO SCIENCE, ART, MANUAL, OR TECHNICAL EDUCATION.

ENGLAND.

- 49 Counties.—49 counties have sent returns,* and of these 42 devote all the residue to education; 7 devote part to education; none have raised a rate, but some local authorities in certain counties have done so.
- 61 County Boroughs.—58 county boroughs have made returns, and of these 47 devote all the residue to education; 10 devote a part (1 not decided); Portsmouth, West Bromwich, and Ipswich, no return; 8 have raised or made grants from rates.

Wales, including Monmouth,

to which the Welsh Intermediate Education Act, 1889, applies.

- 13 Counties. 13 counties have made returns, and of these 12 devote the whole residue chiefly under the above-named Act, 1889; 1 applies part under the above-named Act, 1889; 6 levy or use rate under Technical Instruction Act, 1889; 13 levy a rate under Welsh Intermediate Education Act.
 - 3 County Boroughs.—3 returned, of which 3 apply all to technical education; 1 levies or uses a rate under the Technical Instruction Act; 3 levy a rate under the Welsh Act.

SCOTLAND.

33 Counties.—32 furnish returns (Ross and Cromarty omits), and of these 20 apply the whole residue to technical education; 4 are considering the question of applying the whole; 2 apply the whole residue to relief of rates; while 6 give no sign of action.

^{*} Return C., 7,112, of 1893.

- 82 Burghs. -80 furnish returns (Annan and Whithorn omit), and of these 7 are giving the whole residue to technical education; 21 are giving part to technical education; 1 is considering which to do; 51 are applying all the residue to relief of rates.
- 105 Police Burghs.—102 have made returns, and of these 9 are giving the whole for technical education; 18 are giving part for technical education; 9 are considering the question; 66 are applying the residue to relief of rates.

Some of the English County Councils (Cheshire, Stafford, &c.) have made grants to urban sanitary authorities on condition that the latter levy a rate, or contribute from rates, under the Technical Instruction Act, 1889, or provide funds otherwise.

Many County Borough Councils have decided to put the technical instruction paid for by them under their own control, in buildings

erected or acquired by themselves.

It is evident that few local authorities are inclined to raise or use rates while money can so easily be obtained through the local taxation accounts. Out of 128 authorities that have come under the Technical Instruction Act, only 62 have contributed from rates, and

that to no greater amount than £26,000 for 1892-93.

Wales is evincing greater public spirit in this matter than the rest of the country. The County Council of Glamorgan, in particular, not only devotes the whole of the residue to technical education, but it levies a rate of ½d. in the pound under the Welsh Act, and also raises a rate of 1d. in the pound under the Technical Instruction Act, 1889, the latter producing £9,500 per annum. Monmouth, again, gives one-half of the residue and the proceeds of the ½d. rate to technical education, and the other half of the residue to intermediate and technical education, while it intends to levy the 1d. rate under the Technical Instruction Act.

Technical instruction moves more slowly in Scotland, but one explanation probably is that some part of the teaching now being given in England under the new legislation has long since been imparted in the day schools of Scotland, where a much larger curriculum has been followed than in the day schools of England.

THE WORK DONE IN SELECTED COUNTIES

WILL give some idea of the diffuse and piecemeal way in which expenditures are now being made pending the arrival of a better system of organisation, grading, and management for our schools.

Bedfordshire County Council (1891–92) raised £4,785; voted £850 to town councils and minor local authorities, spent £2,175 directly on technical education, voted £400 to grammar schools for apparatus, £100 to science classes, £1,431 to "other schools," £259 for scholarships and exhibitions, and £495 in expenses of organisation.

Here is an interesting but highly diversified account. There is need of higher teaching in the county, for the Blue Book for 1892 returned only four departments of boys, girls, and mixed schools taking elementary science out of 161 departments, and only eight departments taking specific subjects, or 405 scholars out of 25,783

at inspection.

Among the subjects aided it is interesting to see design and modelling in connection with straw plaiting, and the chemistry of straw dyeing. Horticulture, fruit culture, dairying, farriery, ploughing, thatching, sheepshearing, cookery, wood carving are severally taught, but straw plaiting we naturally associate with Bedfordshire. But even here there is something to be learned from Europe. A writer in the Technical World (Sept. 2, 1893, p. 242) has well pointed out how much of taste and skill is being thrown into straw plait abroad. At Wohlen, in Switzerland, new patterns are constantly being produced in the season. Great varieties of patterns are worked from, and M. Bruggisser said that an average plaiter earns from six to eight francs a week if she gives her whole time to it. Too often in Bedfordshire the workers are all working at one pattern, and there is not the same artistic sense and manipulative skill. A nimble, middle-aged woman, near Leighton, could only earn 4d. a day when she had made a score of "brilliant," and she had to pay for material, and work on speculation. The Swiss worker works to order, and her earnings are net. Such a school for basketmaking and wicker-work as that at Fribourg, Switzerland, proves that in associating drawing, art, and design with that kind of work Luton may learn something.

Take another agricultural county, viz.—

Berkshire received £5,691. Handed £1,300 to local authorities. Spent £2,000 in lectures to elementary school teachers, and in the villages, on agricultural and kindred subjects; £1,455 in grants to dairy schools, cookery, bee-keeping, cottage nursing, and bent ironwork; £250 in agricultural scholarships; and £300 for organising secretary.

Reading County Borough has spent £4,127, chiefly in altering one building and restoring another, for a collection of antiquities and for a school of science.

Here it will be observed that a considerable sum is being spent in educating teachers. It is well known that subjects go untaught in the elementary schools for lack of qualified teachers, but it seems hardly fair that the nation's money should be spent to do what ought to be done before teachers have the mental fortunes of the children entrusted to their care. Our system of supplying teachers to rural schools is radically wrong. Managers who cannot guarantee competent instruction should forfeit their right to control any grantaided school.

We append a list of the counties showing the amounts at their disposal for technical, manual, and intermediate instruction.

THE COUNCILS AND THEIR FUNDS FOR TECHNICAL EDUCATION.

The amounts are for the latest year returned, unless it is otherwise stated. The figures are totals for counties, including the boroughs within them.

£ s. d.

	æ	S.	a.	
Bedford	4,785	9	8	
Berks	5,691	0	6	
Reading (two years)	4,127	6	9	
Buckingham	5,896	18	8	
Cambridge	3,572	12	9	
Chester	23,294	10	8	
Cornwall (from beginning)	6,000	0	õ	
Cumberland (from beginning)	7,231	ő	ŏ	
Derby	10,700	0	0	
Devon (from beginning)	35,210		2	
Dorset	6,000	0	õ	
Durham	15,565	17	1	
			9	
Ely, Isle of (county)	2,294	9		
Essex	16,459	-	10	
Gloucester	12,752	11	0	
Hereford	2,000	0	0	
Hertford	7,056	17	4	
Hunts	1,960	0	0	
Kent	34,582	7	1	
Lancaster		10	0	
Leicestershire	8,355	2	7	
Lincoln	21,993	13	11	
London	57,000	0	0	
Middlesex	4500	0	0	
Monmouth (residue and two rates)	8,465	6	4	
Norfolk	12.012	1	3	
Northampton (two to three years)	17,252	17	4	
Northumberland	12,043	14	1	
Nottingham	9,927	6	3	
Oxford	6,267	19	8	
Rutland	250	0	0	
Salop	7,182	12	11	
Somerset	17,274	5	10	
Southampton	10,464	1	2	
Stafford	24,786		2	
Suffolk, East	4.072	6	$\bar{9}$	
Suffolk, West	2,351	4	10	
Surrey	19 374	Õ	0	
Sussex, East	9,892		š	
Sussex, West	3,792	2	2	
Warwick	36,910		6	
Westmorland (three years)	2,724		7	
Wight, Isle of	2,186		10	
Wilts	10,156		11	
Worcester	10,537		0	
York, East Riding	10,534		2	
	10,334 $19,235$		$\frac{2}{2}$	
York, North Riding	53,764		5	
York, West Riding	55,104	11	J	

WALES.

Flint 2,917 0 0	
Cardigan 1,864 0 0 Carmarthen 3,997 0 0 Carnarvon 3,491 0 0 Denbigh 4,368 0 0 Flint 2,917 0 0	
Carmarthen 3,997 0 0 Carnarvon 3,491 0 0 Denbigh 4,368 0 0 Flint 2,917 0 0	
Carnarvon 3,491 0 0 Denbigh 4,368 0 0 Flint 2,917 0 0	
Denbigh 4,368 0 0 Flint 2,917 0 0	
Flint 2,917 0 0	
Glamorgan 29,027 0 0	
Merioneth 1.755 0 0	
Montgomery 2,913 0 0	
Pembroke 2,500 0 0	
Radnor 1,150 0 0	

SCOTLAND—COUNTIES.

Aberdeen devoted £1,966. 16s. 4d. out of residue. Itinerant instructors at Teachers sent to University of Aberdeen for training. Fisheries and veterinary science included in subjects.

Argyll devoted £923. 14s.; £573 of it spent through nine school boards. Ayr. - Amount, £1,815. 10s. 4d. Mining, navigation, fishery, agriculture, &c. Banff.—Amount, £398. 12s. 8d; £68 to school boards for scientific apparatus. Marine zoology, dairying, navigation, &c

Berwick.—Amount, £600 Teachers helped to Edinburgh University. School boards aided. Ambulance and sick nursing, as well as subjects named above.

Bute. - Amount, £121, 4s, 8d.; £80 to butter making.

Caithness.—Amount, £286. 17s. 11d. Apparatus to school boards and formation of dairy classes.

Clackmannan.—Amount, £118. 4s.; £60 in relief of rates. Lectures on

dairying.

Dumfries.—Amount, £983. 19s. 2d. Lectures to farmers on agricultural science, including food and manures, grasses, diseases of plants, veterinary science and practice, &c.

Dumbarton.—No return.

Edinburgh.—Amount, £1,531. 19s. 6d., allocated among the four county districts. Grants to technical colleges and institutes, mining, wood carving, ironwork, dairywork, and usual subjects taught.

Elgin.—No return.

Fife.—Amount, £1,649. 10s. 6d. Chemistry classes for teachers established

at St. Andrews, science and art subjects, farriery.

Forfar.—Amount, £1,224. 10s.; grant of £1 for passes in machine construction and drawing and mathematics in science and art classes, grants to dairy school. Haddington.—No return.

Inverness. - Amount, £300. Cookery, navigation, agriculture. Grants for science and art successes in various schools.

Kincardineshire. -- Amount, £500. Dairywork. Voted remainder to school boards.

Kinross. - Money used in relief of rates.

Kirkcudbright.—Amount, £718. 16s. 9d. Agriculture and agricultural

chemistry, popular lectures, butter and cheese making.

Lanark.—Sum not returned. Upper Ward: Amount, £175, for agricultural and chemistry classes, butter, cheese, cookery, veterinary, &c. Middle Ward: Money apportioned to school boards Lower Ward: Relief of rates.

Linlithgow.—Amount, £174. 11s. 5d. Grants to school boards which provide technical instruction.

Nairn.-No return.

Orkney.-Amount, £100. Dairywork and scientific apparatus.

Peebles.—Amount, £261. 2s. 3d. To Peebles School Board for board school lectures on dairying, &c.
Perth.—Amount, £2,002 15s. Secondary schools, £350; school boards,

£1,202; teachers' travelling expenses.

Renfrew.— Amount, £948. 9s. 4d. Agricultural Society for lectures, grant for improvement of cookery on board ship, school boards, and science classes.

Ross and Cromarty.-No return.

Roxburgh. - Amount, £300. No scheme as yet returned.

Selkirk.—Amount, £141. Dairywork, &c.

Shetland.-Rates.

Stirling.—No return. Sutherland.—Cookerv.

Wigtown.—Amount, £478. 15s. Cookery, fishing, sanitation, &c.

Burghs.

A total of about £12,000 is being spent by the Scotch burghs in science, art, and technical instruction.

The greatest benefit must result from action and expenditure by so many local authorities in all parts of the kingdom. The Technical Instruction Acts are no doubt tentative. But until something better is agreed upon, the county grants must be regarded as an invaluable instrument for the elevation of the people. Take (see plate 7)

LANCASHIRE,

with its population of 3,957,954, its 693,494 scholars on the registers, and the vast number of children who quit its 1,780 elementary schools every year. The whole county has had only 46 school boards (the same number as Bedfordshire with 160,000 population), while Devonshire has had 151 for a population of 631,000, and Yorkshire has had 243 school boards for a population of 3,208,000. Local representative oversight of education is what Lancashire has needed, and the duties which have devolved upon its local authorities since 1889 will stimulate interest in education and bring its higher forms within reach of thousands who left the day schools far too soon.

The county has resolved to apply nearly all its receipts under the Acts to technical instruction, and these have exceeded £40,000 per annum. Since the Act of 1890 came into operation £101,400 has been allocated for this purpose. True, the rating powers of the county have been largely in abeyance, for only £3,300 was raised in rates and subscriptions (the subscriptions towards buildings not included) in the whole area, urban and rural, during 1891–92. But the necessity has not as yet been felt.

It will be interesting to see among what institutions and for what subjects this grant was distributed for 1892-93. Of course these particulars are for the administrative county only, the fifteen county boroughs having their own budget and programme.

The urban districts received	£21,500
The rural districts received	6,000
Cookery (rural districts)	1,000
Special grants for apparatus	3,308
Special grant to University College, Liverpool	400
Special grant to Owens College, Manchester	400
For some minor deficiencies	15
Harris Institute, Preston, for agricultural classes	650
Migratory dairy school	1,500
Navigation	200
Fishery	250
Saturday classes and exhibitions for teachers in elemen-	
tary schools	3,000
University extension lectures	700
Fixed cheese schools	1,500
Examination expenses	400
Horology (at Prescot)	250
Instruction in practical agriculture	500
Mining	500
Wigan Mining School'	500
Plumbing and sanitary science	500
Furnishing premises	300
Silk industry	500
Union of Lancashire and Cheshire Institutes	100
Horticulture and bee-keeping	800
Training teachers in cookery	200
	244 079

£44,973

Since 1891 the Council have offered:

(a) 56 scholarships of £60 a year for three years—30 for science, 10 for art, 16 for commercial subjects, tenable at Oxford, Cambridge, London, Paris, Trinity College, Dublin, the Owens College, Manchester, and University College, Liverpool.

(b) 306 exhibitions—56 value £15, 250 value £10, tenable in the county.
(c) 18 agricultural scholarships of £20 a year for three years.

(d) 24 agricultural exhibitions of £15 each for three years.

(e) 40 exhibitions of £10 each and 40 of £8 each, for teachers, on results of examinations at the Saturday classes.

During 1893–94 the sum available for scholarships and exhibitions exceeds £7,500. In the whole county, apart from the county boroughs, the technical classes yield the following figures:—

Grants from County Council	£26,758	5	2	
Subscriptions and donations	1,026	14	10	
Fees	4,166	7	11	
Government grants	3,141	14	3	
Rates levied	1,115	19	9	

It is obvious that under a proper system of local educational authorities for dealing with elementary and secondary education the rates would not stop at so trifling a figure. The resources of the county may be guessed from the following table:—*

	Population.	Ratal	ole value.
Liverpool	517,951	£3,33	3.302
Manchester			9,372
Salford		78	1,854
Oldham		53	9,610
Blackburn		46	8,574
Bolton		45	7,022
Preston	107,573	37	9,332
Burnley	87,058	31	6,028
Rochdale		29	1,850
St. Helens	71,288	30	1,866
Stockport (part of town is in Cheshire	70,253	€	9,164
Bury	57,206	25	8,794
Wigan	55,013	17	9,220
Barrow-in-Furness	51,712	24	3,494
Bootle	49,217	44	9,532
Total	2.208.737	£11.06	9.514

Having surveyed in some detail, the nature, need, and distribution of technical education in England, Scotland, and Wales, we must briefly notice the state of things in Ireland, and then in other parts of the world.

IRELAND AND ITS AGRICULTURAL EDUCATION.

For some years agricultural instruction has been obligatory for boys in rural schools in Ireland. Ireland long held a lead in the place she gave to industrial education. A recent rule requires girls, after passing through the stages of the fifth class, to devote the rest of their school life to industrial training. The curriculum of Irish schools has embraced book-keeping, needlework, agriculture, drawing, geometry, mensuration, trigonometry, handicraft, sewing machine, domestic economy, cookery, dairying, management of poultry, hygiene, the physical sciences, navigation, languages, and instrumental music. A results grant of 5s. is allowed for every pupil who has passed in agriculture. Poverty and a constantly waning population—not any narrow policy of the Board of Commissioners—must account for the backwardness of Irish peasant education in the face of such an excellent plan of technical and manual subjects. Nor has that plan failed to yield some splendid results. Some capital special schools for agriculture and dairying are in operation. Seven or eight hundred dairymaids have within

[•] P. 559, Report of Lancashire County Council, 1891-92.

the last few years been thus trained in their calling. Nearly 100,000 boys are regularly instructed in agriculture from text

books of the subject.

The Local Taxation (Customs and Excise) Act, 1890, does not run in Ireland. But in 1892 the Science and Art Department issued a memorandum in which imperial grants were, on given conditions, offered for technical instruction in Ireland. The Technical Instruction Act, 1889, does apply to Ireland, and, where local authorities adopt it and raise money for technical instruction, the Science and Art Department meet that outlay with grants of equal amount for subjects outside the directory of that department.

The Corporation of Dublin has raised the full rate of 1d. in the The Belfast Corporation has voted £750 a year to Belfast technical schools. Cork has levied a rate of ½d. in the pound for science classes at the Municipal School of Art. The Pembroke Township Commissioners are maintaining the Technical and Fishery School at Ringsend. A Technical Association is to be formed for Ireland, and Government is to be asked to make grants which shall be the equivalent of the local taxation receipts in England and The National Schools Board has a model farm at Glasnevin, near Dublin, where teachers are practically instructed in agriculture. Many of the schools under the National Schools Board have school gardens and small farms, where the lads are accustomed to agricultural work. Ireland teaches us how to popularise agricultural instruction. We have of course fine Agricultural Colleges at Circucester and Downton, with high fees. an experimental farm at Rothamstead, and with it a splendid laboratory of agricultural research, founded by Sir John Lawes. But a few noble institutions of that class do not reach the great farming class, and still less the labourers. Agriculture should be made a compulsory subject in England, as in Ireland, in rural Each school should have its garden. A knowledge of plants and animals should be imparted in the early standards, and lads in the older standards should be taught something about the putting together of an agricultural machine, and the use and meaning of the lever, the pulley, the wheel and axle, the spirit level, the barometer, and the thermometer. Farm schools are needed for those who can go higher, where agricultural apprentices could learn chemistry, land surveying, book-keeping, and the principles of agriculture, as in France. When secondary education is placed under local authorities many middle-class schools could have a farming department of 100 acres. Mr. Jenkins, secretary to the Royal Agricultural Society of England, pleads for forestry as a branch of advanced agricultural education. Desolate lands in Great Britain and Ireland are waiting for the planter. The destruction of

colonial forests has had many disadvantages. India and Cyprus are taking measures to preserve and manage forests, and the better continental nations have one or more schools of forestry.

TECHNICAL AND MANUAL INSTRUCTION IN THE UNITED STATES.

Education is dealt with in the States on a colossal scale. A country which in 1889 could spend some £30,000,000 on its public schools, is not likely to fail in the energy and practical aptitudes of its school system. There were at that date—for up-to-date reports of its education cannot be had even in America, owing to geographical and political conditions—

12,931,259 scholars in the elementary grade schools, or 94.2 per cent.
668,461 scholars in the secondary schools, or 4.9 per cent.
126,854 scholars in the superior schools, or 0.9 per cent.

The expenditure per scholar in 1889 was on the average £3. 1s. In the Western States it was £6.**

Manual training in the United States, as I have already tried to show, has been pursued for intellectual and moral ends as well as for the sake of national industry. It is now in full swing. Manual training is being incorporated into the regular public school work. Readfield Wesleyan Seminary (Maine) seems to have been the first school of the literary and manual labour kind, and that goes back to near the beginning of the century. Other schools grew up. But an epoch was made in 1862 by the passing of the famous Act of Congress for establishing colleges of agriculture and the mechanicarts. It reads: "The leading object shall be to teach such branches of learning as are related to agriculture and the mechanic arts in such manner as the legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." That Act put at the service of these objects some of the vast resources of that country in land and wealth. Foreign observers like M. The young people were too Buisson had noted a danger. averse to manual labour, and were apt to think dignity did not lie in that direction. But manual exercises, "trade schools," "business colleges," and splendid technical institutes are helping to form right sentiment on the subject. There are 12 business colleges in Illinois, 16 in Iowa, 16 in Massachusetts, 28 in New Jersey, 16 in Ohio, 19 in Pennsylvania. The business college teaches how business is transacted in large cities in banking, real estate, insurance, and The students have to keep and work a bank commercial houses. So with other callings prepared for. in all details.

In 1867 Massachusetts citizens petitioned the Legislature to introduce schools for drawing free to all men, women, and children

^{*} United States Report, 1889, p. 25.

in all towns of the commonwealth of more than 5,000 inhabitants. American schools now offer manual exercises in variety, from the pretty fabrications of the kindergarten to the construction of the steam engine. Professor le Conte, of the State University of California, said: "'Book work in science is a sham. . . Observing and doing must co-operate with thinking. There are three great departments expressly adapted for this co-operation—natural history, drawing, and hand-work." The co-operation is now going on over the whole field.

The New Haven (Connecticut) schools go through a course in "manual arts." Each boy first learns the names of the different parts of the tool, how to hold and use it, how to sharpen it on the oilstone, and how to keep it in order. The course includes thirty-one lessons, some of them as follow:—

1. Hammer, chisel, and try square.

2. Chisel to line, halving, half dovetail.

3. End mortise and tenon, and boring.

4 Sawing square, through dovetail.

5. Jack plane, cross-cut saw.

6. Grooving, ripping saw.7. Framing and halving.

8. Gauging—bevelling and chamfering.

9. Draw-knife and planing to line.

10. Mortising.

11. Glue joint.

12. Blind, or mitre mortise.

 Mitreing, completing and dovetail.

14. Dovetail, completed.

15. Framing and wedging.

Planing to width.
 Dovetail.

18 Smoothing and sand-papering.

19. Nailing, moulding.

Finish up the box, with mouldings, according to individual fancy.

The cookery school first appeared in 1874 in New York City. The institution has lived down the laughing objection that it has no obvious connection with mental development. Properly taught it is a good object lesson in chemistry, while care, patience, and forethought are cultivated. A splendid course of cookery lessons has been taught in the Washington schools (D.C.) It is entertaining reading to begin with:—

Give directions for making a fire, and make one.

Boil salt water and fresh water; note times taken.

Break an egg into boiling water, and another into cold water; note the results; boil the cold water with the egg; draw inferences.

Experiment with salted and smoked meats.

Boil rice, potatoes, and mash; boil beets, onions, and squash; boil oat-

meal (cracked), wheat, cerealine.

Stewing: Experiment with tough meat and vegetable acids; show where in the animal tough pieces of meat are found; explain why they contain so much nutriment, &c.; make an Irish stew without dumplings; make "bubble and squeak."

Broiling: Names and positions of best steaks; lard and oleomargarine,

from what and how made.

^{*} Paper read before Teachers of California, December, 1887.

And so on through the mysteries of baking and frying for seventh and eighth grade scholars, to those high school elaborations of fancy and invalid cookery which leave griddle cakes, fritters, apple oyster,

clam, doughnuts, and cruellers far behind.

An excellent manual training course is in use for the eight grades of the primary and the eight grades of the grammar schools of New Several of the best of the manual training institutions owe their origin to Professor Kunkle's visit to the Imperial Technical School of Moscow, and were formed on the "Russian system." The Massachusetts Institute of Technology (see plate 8), the St. Louis Manual Training School, the Chicago Manual Training School, and the Baltimore Manual Training School deserve prominent mention. But these first-rank schools are only a small part of the national machinery. Everywhere the attempt is being made to train the mind and the hand together. The American youth is told that he can only keep abreast of the world's methods of production by leaving school a hand-worker and acquainted with science and art. The rush of machine invention is revolutionising some trades and abolishing others. As was stated by Mr. Powderly, at the State Teachers' Association of Pennsylvania: "Were a shoemaker, dead thirty years ago, to enter a shoe manufactory of the present day, he would turn away sick; he would be unable to understand the machine stitcher, heeler, welter, laster, pegger, waxer, and buttoner."

An important Commission was appointed in 1887 by the Legislature of Pennsylvania to inquire into "industrial education" as given in America and elsewhere, and its report, published in 1889, contains the fullest account of the manual and technical systems of the States. The Land Act of 1862 required each State adopting it to have at least one college where the "leading object" should be "to teach such branches of learning as are related to agriculture and the mechanic arts, without excluding other scientific and classical studies." It granted 30,000 acres of public land for each senator and representative in Congress. This splendid scheme has brought into existence a large number of strong and progressive institutions. Some of them are organically graded with the State day schools, and thus round off the system of education in a way not

yet known in England.

The Commission reported in favour of manual training for all public schools and of State handicraft schools for vagrant children. Particularly it recommended that no diploma be given by a normal school to any pupil who has not had a course of manual

training.

As early as 1872 Massachusetts authorised by Act of its Legislature the teaching of agriculture in *all* public schools, the establishment of industrial schools, and the teaching of navigation. New Jersey

moved in 1881. New York State passed in 1888 an Act authorising the industrial manual arts in the public and normal schools. Penn-

sylvania followed in 1883.

Some normal schools allowed females to learn the use of tools. Whitewater and Milwaukie, in Wisconsin, have many female students, and they learn to handle hammer, saw, square, auger, bit, plane, chisel, forge, lathe, &c. Twenty-four of the States of the Union give free tuition to student teachers in the training colleges. The thorough training of teachers in manual arts is being realised, and is all the more imperative from the great growth of population and the "influx of an uneducated foreign element that appears to have but little interest in the proper rearing of their young, and have produced a long list of uneducated voters in our commonwealth."*

State of Alabama.—(1) The Alabama Polytechnic Institute at Auburn gives a course of carpentry, patternmaking, moulding and casting in iron and brass, forge work in iron and steel, chipping and filing, and machine work, with a drawing course, the whole covering three years. (2) The Tuskegee Normal School enrols 294 students, and requires all to work. The school farm is of 600 acres, 475 acres in woods. Its brickyard turned out 150,000 bricks in one year. There is a carpenter's shop and printing office. All the buildings on the school grounds have been erected by students' labour.

District of Columbia.—The public schools give manual training from first to last—from the kindergarten of the young children to the bench and lathe work, the moulding and forging, in the seventh

and eighth grades and the high school.

Connecticut.—The New Haven public schools send selected boys to a central workshop. Ten classes of 24 boys each from each grammar school receive two hours' instruction per week. The course of instruction has already been given.

INDUSTRIAL EDUCATION OF THE COLOURED RACE.

The John F. Slater Fund distributes 45,000 dollars annually among negro schools in the South expressly to foster hand training. Forty-four institutions received this aid in 1888, two of them for medical students. Industrial education is a very large, some say a too large, part of the school work of the negroes. This was felt to be necessary if the negro was to become a skilled workman at all. The principal of the Tuskegee State Normal School, Alabama, is a coloured man, and he has pointed out that the industrial work of the best coloured students enables them to pay nearly one-half of their board bills. In Shaw University, Raleigh (N.C.), there were 90 boys in the carpentry department, working forty hours per

^{*} Pennsylvania Commission Report, p. 49.

month, and 80 young women in the dressmaking department. The students are paid an average of ten cents an hour for work. The following is a synoptic view of the school provision for the coloured race:—

	No of	Ē	No. of	No. of
Class of Institutions.	School	s. T	eachers.	Pupils.
Public Schools	. —		18,219	1,140,405
Normal Schools	. 30		229	 5,439
Secondary Schools				 3,705
Colleges			178	 5,066
Schools of Science			18	 434
Schools of Theology	13		64	 725
Schools of Law			_	 160
Schools of Medicine	2		18	 110
	79		18,832	1,156,044

Georgia.—(1) The Atalanta University (unsectarian) has 17 professors and 518 students and graduates, and a mechanical course of three years in wood, iron, and steel work. The boys of the college, preparatory, and grammar school course take this instruction, together with the principles of farming and gardening. The mechanical department is housed in a building 100 feet by 44 feet and three storeys high, with rooms for 30 cabinet benches, one for 12 wood-turning lathes run by steam power, one for 12 forges and anvils, and a large room for mechanical drawing. (2) Georgia School of Technology at Atalanta. This was founded by Act of the Legislature, and is free to all students resident in Georgia. Outsiders pay fees

not exceeding 150 dollars per annum.

Illinois.—(1) The Beardstown Public Schools have an excellent manual course, including primary work in splints, paper, clay, sand, relief maps, industrial drawing, and shop work. (2) The Chicago Manual Training School was founded in 1882, and its graduates are admitted free to various polytechnics and universities. Public Schools of Peru (Ill.) teach use of tools, and wood carving is done in connection with drawing lessons. (4) The Illinois State University was originated to promote the higher education of the industrial classes. Under the Act of 1862, 480,000 acres of land were granted to Illinois for such institutions. The tuition is free to candidates 18 years of age who pass an entrance examination which includes algebra through quadratics, physiology, natural philosophy, plane and solid geometry, and botany. The school of mechanical engineering is well equipped. Mechanical art and design, shop work, pneumatics and principles of mechanism and prime movers are carefully pursued.

Indiana teaches drawing and construction work in all primary schools. The State possesses a great treasure in the Purdue

University. John Purdue gave for its use £44,000, and its permanent endowment fund amounts to £66,000, besides property worth over £60.000. In 1888 it had 368 students:—

11 taking field and garden work.

37 taking surveying.

105 taking shop work.

307 taking laboratory instruction.

167 taking industrial art.

52 taking household industry.

One hundred and twelve of its students were females. The value of its scientific apparatus was £10,000. There are six special schools, besides a preparatory department:—(1) Agriculture, horticulture, and veterinary science. (2) Mechanical engineering. engineering. (4) Science, (a) biology, (b) chemistry, (c) applied (d) literature and history. electricity, (5)Industrial Applicants who have successfully completed the (6) Pharmacy. high school course of the State are admitted to the freshman class without examination at 16 years of age.

The Rose Polytechnic Institute, founded by the late Chauncey Rose, of Terre Haute, is another of the great institutions for technical instruction of which our American cousins have reason to be proud. It had 109 students in 1888. Its grounds and buildings are worth £30,000, and its scientific apparatus £5,000. Its endowment funds are £90,000. It offers practice and laboratory work in (1) mechanical engineering, (2) civil engineering, (3) chemistry, (4) physics, (5) drawing, and its programme of subjects and classes is a surprising one.

The mind of the reader would be wearied by particulars of all the manual and technical work being done in the Republic in the primary, secondary, and university stages. We can only urge those interested to seek for themselves the information which may be obtained from the proper authorities as to the work being done

in the following and other institutions and localities:—

Iowa.—The State Agricultural College. Six courses of study, all scientific and technical. Free to all Iowa students.

Maine.—The Maine State College of Agriculture and the

Mechanic Arts.

Maryland.—Baltimore Manual Training School, with 601 pupils: provision for 250 in carpentering and 75 in patternmaking, for 150 in machine shop, and 70 each in moulding, forging, and sheet metal.

Massachusetts.—The public schools of Boston have been active in manual instruction. The Massachusetts Institute of Technology: 720 students—130 taking surveying, 192 shop work, 692 laboratory.* Springfield Manual Training School: 139 pupils in drawing, joinery, wood turning, wood carving.

^{*} For an account of this remarkable institution see Report published by Alfred Mudge and Son, Boston, 1893.

Worcester Polytechnic Institute.—383 pupils have graduated; 168 resident in 1889. Endowment, £112,000.

Minnesota.—The public schools of Minneapolis. The University of Minnesota, with a college of mechanic arts. St. Paul's Public Schools. Six branches of woodwork.

Missouri.—The St. Louis Manual Training School—a department of Washington University.

New Jersey.—Public schools at Elizabeth, Montclair, Orange, Vineland, &c. Stevens Institute of Technology, at Hoboken: an elaborate curriculum and technical course. Newark Technical School: 175 students.

New York.—Albany High School. Pratt Institute, Brooklyn. Cornell University, Ithaca: 1,135 students and graduates; value of scientific apparatus, £84,000; funds, £950,000; mechanical engineering; mechanic arts; industrial art. Public schools. College of City of New York: Students, 1,277; library, 23,869 volumes. The public schools.

Ohio.—Technical School of Cincinnati. Case School of Applied Science. Cleveland Manual Training School. The Toledo Manual Training School.

Pennsylvania.—Carlisle Indian School, for Indian youth: 300 at farming, 150 at various crafts. Haverford College. Girard College. Philadelphia Manual Training School: 325 pupils. Pennsylvania Museum and School of Industrial Art, Philadelphia: Department of weaving and textile design, chemistry and dyeing, tapestry painting, wood carving. Lehigh University. Pennsylvania State College: Elaborate technical courses. Swarthmore College. Tidionte Public Schools: Flower gardens kept by scholars in practical botany.

Virginia.—Virginia Agricultural and Mechanical College. The "Miller" Manual Labour School.

Wisconsin.—The University of Wisconsin. Public schools. Whitewater Normal School.

Kentucky has some schools of science; 1,176 students in business colleges; State Agricultural College, of large scope and £88,000 of funds.

Louisiana.—State University and Agricultural and Mechanical College at Baton Rouge.

These and other institutions, crowning a graded system of common school education that is the admiration of the world and the despair of some older countries whose education and religion seem to have got into each other's way, prove how rich is the supply of manual and technical instruction, especially in higher schools, in the United States.

GERMANY.

From the time when the Prussian king in 1717 ordered all parents to send their children to school, down to our own, Germany has been a school-loving country. We might go further back, to the great religious upheaval of 1517, and date the movement from that time. There are three groups of schools:—

- A. The Lower Schools, or People's Schools, which are purely elementary, and for both sexes.
- B. The Middle Schools—(a) Citizens' Schools for boys, (b) Girls' Academies, which are of larger scope.
- C. High Schools—divided into (a) the Realschule, (b) the Gymnasium, (c) the Real-Gymnasium.

The Realschule was established 140 years ago. It teaches modern languages, natural science, mathematics, industrial training, and prepares youths who wish to become engineers, surveyors, artists, civil officers, &c. The Gymnasium is the oldest kind of school, and is the Latin school of the Middle Ages. It is the classical school for boys. The Real-Gymnasium combines some of the features of the two others.

There were 418 gymnasia (or classical schools) in Germany in 1889. Prussia had 266; Bavaria, 35; Saxony, 17; Würtemberg, Baden, 14; Alsace-Lorraine, 16, &c. There were also 54 progymnasia, i.e., gymnasia with a six years' course instead of an eight years' course. There were 154 realschules and higher citizens' schools in 1889. The number of real-pro-gymnasia was 106. All told, Germany had 976 secondary schools at that time, with nearly 400,000 pupils. At the present time the country has 1,000 high schools, and they are so in fact, not merely in name. These schools prepare for the universities and polytechnics.

It has been said that German scholars are remarkably free from disorder. They only require to be taught and interested, and the teacher has no physical resistance to cope with. The Anglo-Saxon branch of the Teutonic family must modestly waive any claim to this form of juvenile excellence. They are rich in will power, however, if

not in intellectual docility.

All teachers in Germany must be qualified. They must either possess a diploma from a "Wissenschaftliche Prüfungs-Commission,"

or one from a seminary or normal school.

Fortbildungs-schulen, i.e., the continuation schools, are held in the evenings or on Sunday mornings. In many states, though not in all, attendance at these schools is compulsory. There are few half-timers, and no pupil teachers. The head teacher's duty is mainly supervision, and women teachers are few. Prussia, for instance, has 106 normal schools for men, but only eight for women. But

INDUSTRIAL HANDICRAFT FOR WOMEN

is largely taught in the country, no fewer than 34,270 female instructors having taken part in this work in 1887, many of them being wives of country teachers. There were 4,874,347 scholars enrolled in the people's schools in 34,016 schoolhouses. A most remarkable fact is that 23,152 of these schools were under one teacher, and there were only 28,561 classes in these schools.

SCIENCE AND ART TRAINING

ARE everywhere provided. Workshops are not connected with the primary schools, but drawing is universal, and apprenticeship schools are easily available. The girls' academies in Prussia give 14 hours per week to industrial teaching. Almost everywhere in Germany attendance is compulsory until 14. As has been said by an able friend of English education, who is also an unflinching advocate of a lengthened school-life for our children: "It is hardly too much to say that the two years' additional training the German child receives in the elementary school doubles its chance in life as compared with the English child." And if this is so, what must it not do to increase the nation's chance of success in the hand and brain rivalries of the world? The fact that

RAGGED AND BEGGING CHILDREN

ARE rarely seen in Germany is due to the anterior fact that the education of children has for three generations been the earnest care of the German people. They are applying technical science to every department of industry in a way of which we have as yet little idea, and their polytechnics and practical technical schools are in advance of anything we have until lately possessed in England. Of some of these institutions we must now speak, but before we do so we must point out the wonderful

SOLIDARITY OF GERMAN EDUCATION.

ALL classes and kinds of schools in a city stand in close and sympathetic relation to those higher institutions which are the crown of an educational system, such as art academies, museums, the astronomical observatory, the library, the gymnastic societies, and universities.

TECHNICAL UNIVERSITIES IN GERMANY AND SWITZERLAND. (See plate 9.)

GERMANY and Switzerland were quick to see the need for skilled assistants. Scientific high schools sprang up for the training of men who might compete with English engineers trained in the

workshop. The universities of fifty years ago did not meet the case, and consequently each state did its best to create technical institutions that would do so. Magnificent polytechnics arose like

The Federal Polytechnic School at Zurich.

The Polytechnic School at Munich. The Polytechnic School at Vienna.

The Polytechnic School at Stuttgart. The Polytechnic School at Dresden.

The Polytechnic School at Hanover. The Polytechnic School at Aachen.

The Technical High School of Berliu, now the Charlottenburg Polytechnic.

The Polytechnic School, Delft.

The Polytechnic School, Moscow.

These schools cost £3,000,000 for building and fittings, and their

maintenance costs £200,000 annually.

The Zurich Polytechnic was established by the Swiss Confederation in 1854. It is one of the finest in the world, and comprises seven special schools:—

1. Architecture, with a three years' course.

Civil engineering, three and a half years' course.
 Mechanical engineering, three years' course.

4. Chemical technology, including pharmacy, three years' course.

5. Agriculture and forestry, two and a half years' course.6. Normal school for training special science teachers.

7. Philosophical and political science.

Further, a preliminary course is provided in mathematics for those not yet prepared to enter one of these schools. There are 200 courses of lectures, 45 professors, and 13 assistant-professors, besides tutors, curators, &c. The institution spends over £20,000 a year. A few years ago the Federal Council voted to it £50,000 for the extension of the chemical laboratories. The cost to a student is £4 the half-year and £2 for laboratory practice, or about £12 per annum in the chemical department for the full use of these great

opportunities.

Of the seven sessions the first three are given to theoretical subjects, such as pure mathematics, descriptive geometry, with drawing, mechanics, and physics treated mathematically. The work is considered almost too exhaustive for engineering students. The fourth session takes geographical statics, so important for bridge-designing. The sixth and seventh sessions deal with tunnels, stone and iron bridges, railways, canals, roads, geodesy, and other branches of engineering, besides the drawing and designing these call for. Diplomas are given for passing special examinations. The non-Swiss engineering students are 70 per cent of the whole, a fact which witnesses to the wide reputation of the school. Students come even from North and South America.

The Zurich Apparatus.—The Zurich School Law of 1832 contains these noble words: "The children of all classes of society shall be educated according to the well-known principles of pedagogy, to be intellectually active, civilly useful, and morally good men and women." The instruments of education gathered in the polytechnic of that city prove that that law has been no empty formula. There are twenty-two collections, museums, &c.:—

1. Three libraries—of the school, of the cauton, and of the city.

2. Engineering and architectural collections.

3. Plaster casts.

4. Specimens of construction and materials.

5. Antique vases. 6. 24,000 engravings.

7. Geometrical instruments.

8. Models of machinery.

9. Tools and models for applied mechanical technology.

10. Models and products for chemical technology.

11. Mathematical and geometrical models.

12. Specimens and tools of forestry.

13. Agricultural collection.

14. Science specimens, as of natural history, zoology, botany, geology, palæontology, &c.

15. Archæological collection.

Workshop for moulding and casting in clay and plaster.
 Workshop for metal work.

18. Laboratory for chemistry. 19. Laboratory for agricultural chemistry.

20. Cabinet of physical apparatus and a physical laboratory

21. Institute of vegetable physiology, including microscopic and physiological departments, botanical collections, and hothouses.

22. Botanical garden.

The Zurich Polytechnic gives purely scientific instruction, it does not teach industries. But of course it directs the best thought and research of its alumni towards industrial development. Both in Germany and in Switzerland men trained at Zurich are holding

important positions in industrial establishments.

In Prussia, foremen and workmen are not so well provided for as masters and managers in respect of technical education. Head men in engineering, chemistry, and architecture are extremely well served in such high schools as Berlin, Hanover, and Aachen. Civil Service engineers must attend one or other of these schools, and must present a leaving certificate from a gymnasium, realgymnasium, or an upper real-school.

There are technical schools of a lower type called "real" and "trade" schools. The course in some is nine years, and these are called "upper real-schools;" in others six or seven years, and these

are called "burgher" schools.

Prussia has building schools in Berlin, Nienburg, Eikernförde, Breslau, Höxtar, and Idstein. There is a school for machine

construction at Eimbeck; four weaving schools at Crefeld, Mulheim, and Eimbeck; a trade school for pottery at Höhr; trade metal schools at Iserlohn and Remsheid. There are trade continuation schools for apprentices and artisans under 18, who can be compelled to attend, as their masters are to grant them time to do so. In that case the State pays half the cost. Agricultural schools, &c., are also in operation.

The polytechnics and universities between them have diffused scientific knowledge throughout Germany and given an adequate supply of men who can superintend industrial works and act as teachers in technical schools. It is here that England still fails. A list of some of the universities may be of interest, especially if we remember that their cost is as small as their equipment is elaborate:—

Universities.		nts.	Teac	hing s
Berlin	 (4,995 13,900*			241
Leipsic	 3,166 3,111*			171
Munich				141
Breslau	 1,682			123
Halle	1,414 $1,414$			_ 1
Bonn	 1,102			110
Göttingen Wurzburg	1,096 1,091			119
Lemberg	 1,011			_

There are at least twenty-four universities in the German Empire, five in Switzerland, and nine in Austria, and from 30,000 to 40,000

students are being trained in them.

Apprenticeship Schools in Germany.—These train workmen in pure and applied art and in practical work in the shop. They have spread over Southern Germany and Austria, and are now in Prussia. The manufacturers demanded better workers. Three years is the course, in which the pupils are trained as designers, modellers, wood carvers, moulders, founders, turners and pressers, chasers, engravers, gilders, and etchers. The number of artisans attending the schools is increasing.

The Fortbildung or night schools of Bavaria help the apprentices' schools. The former are free, and are attended by middle-aged men as well as by young men. In old days the workshop was a school, and the handicraftsman was also an artist. But the apprentice does not now learn an entire trade at his work. Labour is divided into small operations, and every youth is called off in his turn to military life. It is therefore needful that the school should do its part by linking taste with strength, and so securing cheapness and attractiveness in products.

^{*} Auditors.

Chemical Colour Industry.—The coal tar colour works of Germany and Switzerland, such as those of Messrs. Bindschedler and Busch, at Basle, Messrs. Meister, Lucius, and Brüning, at Höchst, and the Baden Aniline and Soda Works, at Ludwigshafen, possess trained scientific chemists in every department. At the first of these houses there are ten laboratories, apart from workshops, where the colour chemist and the workman chemist meet together. The head chemists have been through Zurich Polytechnic. A scientific library is provided to assist the under chemists in their preparations. Laboratory experiments at Messrs. Bindschedler and Busch's resulted in the manufacture of the colouring matter now known as malachite green. These improvements brought down the price of the colour from £2 to £1. 4s. per kilo.

Calico Printing—Alsace.—The heads of the firms are very able men. A great proportion of them speak English. Trained chemists are engaged. An art gallery and museum for the study of fine art and design has been created at Mulhausen, at a cost of £20,000, and there is an unrivalled trade museum of designs, patterns, and choice examples of weaving and printing. The poorest boys of ability in the elementary schools are encouraged to attend the drawing school and afterwards the engraving school, where they are gratuitously

trained in the processes of engraving for the calico printer.

At Chemnitz, Saxony, there is a remarkable higher trade institute, which cost for site and buildings £82,000. It has four schools—a technical school for chemists, &c., a foremen's school, a building school, and a drawing school. The town is also distinguished for its weaving and weaving school. A technical knowledge of dyeing is required for the exquisite work here produced. The manufactures of the district owe their excellence largely to the Chemnitz Weaving School, the classes of which are attended by the sons, assistants, and overseers of all fancy manufacturers of the town. We can only append a brief notice of other establishments.

The Building Trade School at Stuttgart.—A fine building, cost £50,000. Two preparatory courses and three scientific building

courses.

The Metallurgical School of Bochum, Westphalia.—Established by iron and steel manufacturers. Open only to workmen employed

four years in iron or engineering.

Crefeld Weaving School.—The Royal Commissioners said that "German building schools and mining schools were not dangerous to us, but their weaving schools were more so." Crefeld is a great school, and popular with manufacturers. It teaches drawing and the loom; painting from models, natural plants and flowers for printing and other branches; machine drawing; fabrics decomposed; original design; unmounting and rebuilding power-looms, and forge

work. It has a museum of textile fabrics, and the Krauth collection of historical patterns. The dyeing and finishing departments of the school are complete. The silk industry of Crefeld is largely due to the school.

The Industrial Art Schools of Germany apply art to manufactures more than those of France. The Dresden School has revived old and established new industries. It is without workshops, but sells its designs to manufacturers. It has departments of designing, architecture, decorative painting, ornament, figure drawing, art modelling, decorative painting from the figure. It has 16,000 mounted patterns, 11,000 examples of embroidery and lace, and a school museum containing 140,000 patterns of textile fabrics of all kinds and ages. The director is a professional designer in metal work, porcelain, furniture, wall-papers, and textiles.

The Industrial Art School of Vienna practises carving, metalchasing, and working in brass and bronze. In wood-carving it far surpasses England. Many students work certain hours, and then sell the product of their labour. These succeed best. (See plate 10.)

The Royal School of Art Embroidery, Vienna, is wholly technical. Girls from the primary schools are carried forward to every kind of fancy needlework and designing. There are no fees save for foreigners. The Commissioners thought the instruction given here was the highest they knew in any school of the same class. Schools on a somewhat larger plan are needed in all large towns. Artschools are not enough, and are over-crowded. What is wanted is to open up new pursuits for women, in which art can be combined with domestic life.

TECHNICAL EDUCATION IN FRANCE.

France has centralised her system of public education beyond what is permitted in English-speaking countries. France is divided for educational purposes into 17 académies (educational districts), 87 departments, 36,121 communes, 362 arrondissements (subdivisions of departments), and 2,865 cantons (sub-divisions of arrondissements). There is a municipal council for each commune.

In 1889 the following was the enrolment of scholars in all classes

of schools and institutions:-

Primary ,,	 5,500,000 = 88%
Normal ,,	 9.000
Universities	 18,000

France has for a considerable time taken pains to prepare her artisans for skilled, tasteful, and finished work. The application of the fine arts to industry has brought untold wealth to the nation.

As has been said: "France has schooled her workmen in classic models until hereditary descent of aptitudes for tasteful ornament and beautiful finish is to be counted on among her people." *

The industries of each locality are considered in each commune, and drawing is everywhere taught. Schools of industrial apprenticeship are provided, either as part of the primary schools or separately. Manual training was made an integral part of the curriculum by the law of 1886; both boys and girls are provided for in this respect. The ordinary schools of France excel the English as a preparation for the technical school. †

Technical Education in Paris Primary Schools.—Paris has some 600 public elementary schools, besides some 126 kindergarten schools for younger children. Ten per cent of the expenditure of Paris is for education. Soup is given to infants at 11 o'clock, and they eat food brought with them. In 90 of the 285 elementary schools for boys in Paris there are workshops for iron and wood work under a superin-

tendent. A good specimen of this arrangement is the

Primary School, 109, Avenue Parmentier.—It has a wood shop with twelve carpenter benches, and four lathes against the wall. One boy turns for a quarter of an hour, two others watching him, and each takes work and watch in turn. Joining and dovetailing are done at the bench, but at the lathe they can turn a long plain stick into seventy-six different ornamental pieces, made either to stand separately or to fit into others and produce a finished object when combined. If ten pieces are made well, the effort is rewarded by permission to make something for themselves and take it home. The iron workshop contains twelve vices arranged along the walls, a boring machine, anvil, and forge.

Superior Primary Schools & (Écoles Primaires Supérieures) or high schools, also free, give a four years' course in which manual training in drawing, wood and iron work takes a prominent place. One of these, in the Rue de Jouy, is for girls, where they are trained for higher employments, as book-keepers and correspondents, and for

taking charge of industrial establishments for women.

There were in 1887 no fewer than 66,000 schools in France, of which 57,611 were State-managed, secular, and free schools. belonged to the Church.

There were many secondary schools—98 lycees and 256 colleges, But between these and the primary schools some few years ago. are the manual apprenticeship schools.

^{*} Report of United States Commissioner of Education, 1889, p. xxxii. † Mr. Matthew Arnold's Report.

[‡] See Report of Mr. Schoenhof to American Secretary of State, 1888. § "The Turgot," "Colbert," "Lavoisier," "J. B. Say," and "Arago," &c.

The Polytechnic Association was founded in 1830 by the graduates of the Polytechnic School for the purpose of conducting preparatory courses of industrial and technical training for both sexes. Training is given in the cutting and fitting of garments, decorative painting, making of artificial flowers, and commercial courses to young girls. The Municipality of Paris has been to the forefront in supplying technical education for girls. It has undertaken to fit every girl for domestic or business life who applies at its schools, and without cost to the pupil. Its ecoles professionelles ménagères number six, besides its "commercial school." On these schools alone £30,000 is spent annually. The school, 14, Rue Bosquet, has 300 pupils. Girls must be 12 and not over 15 years of age, and must have a certificate from the primary school. The course is three years, but that of painting and drawing can be extended to four.

EXPENDITURE ON DRAWING IN FRANCE.

Paris	£42,420	per	annum
National Budget for Art	45,240		,,
Municipal contributions in Provinces	47,395		

£135,055

SPECIAL SCHOOLS IN FRANCE.

School of Telegraphy, for Government employés.

Schools of Manual Apprenticeship. These supplement the primary school, and are for pupils born French or naturalised.

Higher Schools of Commercial Studies. Foreigners admitted. Pupils

prepared for merchants, bankers, adminstrators, &c.

National School of the Industrial Arts at Roubaix, for practical and theoretical study of the local manufacture of cloth, which is highly valued. Foreigners are admitted by letter from their ambassador or consul. (See plate 11.)

Annual Government The Ecole des Beaux-Arts at Paris is free.

grant, £14,320.

The Académie de France at Rome, for successful artists. Government allows them £140 a year for four years at Rome, and sends them also.

The Ecole des Beaux-Arts at Lyons is a national school, but chiefly supported from Lyons. It has a scholarship of £48 for three years, with £24 added by the town. It is relied on as a source of refinement rather than immediate profit.

The Ecole Nationale des Arts Decoratifs at Paris has 800 pupils. State

subsidy, £4,000 annually.

National Professional School at Vierzon, opened by M. Jules Ferry. Ecole Professionelle Municipale of Rheims, to instruct youth in manufactures and commerce. Four courses are given, according to the aptitudes of scholars after the second year: (1) manufactures, (2) mechanics, (3) commerce, (4) agriculture. The plant cost £20,000. The pupil is taught to weave and spin. He spins and weaves the wool which he has washed, carded, dyed, and prepared, with plant like that of the factory.

The Polytechnic School at Paris fits for military, naval, and hydrographic engineers, and those of the military bridge corps, superintendents of State manufactories, telegraph lines, &c., and other careers demanding advanced mathematics, physics, and chemistry. High School of Mines, Paris. Foreigners admitted, but receive no

diplomas.

The National School of Design for Young Women, Paris.

The Limoges School of Decorative Art. 1,250 students in 1883.

Schools attached to the National Factories of Gobelins, Sèvres, and Beauvais.

School of Fine Arts at Toulouse. Painters' and sculptors' classes.

Meet 6 to 8 on winter evenings, and 6 to 8 on summer mornings
School of Master Workmen of Mines, Calais. Pupil must have worked

18 months in mines.

School of Horticulture at Versailles.

Central School of Arts and Manufactures in Paris.

Agricultural Schools. An Institute of Agronomy fits pupils to be teachers in the schools of agriculture, to be scientific proprietors and managers of farms, and experts in vine culture; 227.000 francs was voted to the Institute in 1885, 1.145,000 francs to the Veterinary School, 806,000 francs to the Agricultural Schools, 649,000 francs to the Practical Farm Schools, and 91,000 francs to the Horticultural Schools

There are also schools of arts and manufactures at Aix, Angers, and Chalons. Two schools of watch and clock making. Weaving schools also at Nimes, Amiens, and St. Etienne. Several lacemaking schools. A free school of political science, with a remarkable and exhaustive programme of constitutional, legal, financial, and

diplomatic studies.

French Agriculture.—Half of the inhabitants of France are in the agricultural class. There are 7,000,000 owners, farmers, and labourers, cultivating 125,000,000 acres. France is the greatest wheat-growing country in Europe. By elementary teaching, itinerant lectures, experimental plots and fields ("stations agronomiques"), farm schools, agricultural colleges, and the Institut National Agronomique at Paris, France is endeavouring to perfect existing modes of agricultural practice. In 1891–92 France spent £170,000 of imperial funds in this work, besides local expenditure. Butter and cheese making are receiving great attention. Voluntary agricultural schools are active, and there are 12 State schools, viz.: Agriculture, 3; horticulture, 1; dairying, 1; veterinary, 3; forestry, 2; and shepherds' schools and bergeries, 2.

DENMARK AND SWEDEN.

THESE countries have distinguished themselves in dairy produce, and Sweden especially by the Sloyd system of woodwork in schools.

Dairy Farming.—From a special report of the Board of Agriculture for 1892, we learn how successful Denmark and Sweden have been in dairy production. Ten years ago Denmark sent us 304,722 cwt.

of butter; last year she sent us 876,211 cwt. Sweden sent us only 67,821 cwt. at the former date, but we now import 234,987 cwt. This has come about from well-known causes. Government has helped the farmers to reach markets, for one thing. For another, the people have not clung to old methods when better ones have been brought to their knowledge. They have made butter in winter as well as summer, as the Holstein settlers who came to Denmark fifty years ago taught them to do. With the thermometer and scales soon came practical instruction in dairy management. Centrifugal separators have replaced the old processes of cream-raising, steam power being used in large workings. Souring is managed so that uniform quality results. Butter is not washed in the churn, lest the fine aroma should be lost; or if so washed, cooling and other precautions are taken. But most interesting of all has been the policy of

Co-operation in Danish Dairying.—Farmers have combined their knowledge and resources, and there are now one thousand co-operative dairies in the country. The New South Wales farmers have formed similar co-operative dairies, the shareholders being the farmers themselves. Danish dairying is carried on in the same way with success. Many dairies pay for milk by the "fat test." Since 1880 the middleman, or local butter dealer, has not been much heard of, and the producers sell to the export merchants. The latter move rapidly, shipping orders of butter on Friday morning in response to telegrams from England received on Thursday (the weekly market day). Consulting experts and advisers are at the

call of the dairying companies for a small fee.

Sweden has long winters and little pasture, but the farmers have become first-rate dairymen. Co-operative dairying is here also in the ascendant, as against the "buying-up-dairy" system. Buttermaking ceases in spring on account of low prices, and whole-milk cheese is turned out instead. Dairy farm stations are registered by the Royal Board of Agriculture, Sweden, and are aided from Government. They receive pupils for two years to be trained as

"skilful dairymaids."

Germany largely uses the "Laval" separator for cream. The cream is allowed to "turn," and butter is not usually washed with water. The middleman is discouraged, such large holders as the "East Holstein Associated Dairies" employing their own agents rather than brokers. Germany has 1,020 co-operative dairies. The Government aid by subventions the education of dairymen and dairymaids. In the Kingdom of Saxony there are three dairy schools, and in the Grand Duchy of Oldenburg there is a dairy school and institute combined. Würtemberg has seven schools of domestic economy; Baden, two. There is a school of farmhouse

economy in the Grand Duchy of Hesse. But these do not include special dairy schools and exclusively private schools. The farmhouse schools (like that at Nebra, in Brandenburg) live a family life, teachers and scholars having every opportunity of putting into practice what is learnt. Not only is the handling of milk and the making of butter and cheese taught, but gardening, rearing of poultry, smoking and salting of meat, household book-keeping, and treatment of the sick.

Slöjd* (in Sweden).—Sweden has solved better than other countries the problem of combining a varied manual training with ordinary school work. There are over 700 schools in Sweden in which Slöjd is taught. The normal school for this instruction is at Nääs, where a considerable number of teachers of the system are The principles laid down are: (1) voluntary attendance at Slöjd; (2) Slöjd work must be useful; (3) not fatiguing in tool exercises; (4) varied; (5) such as can be done by pupils themselves; (6) real work, not play; (7) not articles of luxury; (8) the work becomes the property of the pupil; (9) the pupil must be able to do it: (10) done with exactness; (11) neat and clean; (12) thoughtful, not merely mechanical; (13) strengthening to the body; (14) develop sense of form; (15) rich in manipulative detail. Again, the teacher of it should be the ordinary teacher, and he should superintend the It should begin at the eleventh year. work but not handle it. Slöjd includes carpentry, turning, and wood-carving. carpentry and trade carpentry differ. The former is small work; tools are different, and there is no division of labour. There are about The sheet-anchor, however, is the knife, one hundred models. which has a blade two-and-a-half inches long, strongly fixed in the handle and sharply pointed at the end. In addition, each worker has a square, a saw, an awl, perhaps a pair of dividers, and hammer and nails; benches of Swedish pattern, and sets of bits, chisels, gouges, and planes are used. The following articles are made:-

Footstool Ruler Pointer Corner bracket Knife handle Flower-stick Nail box Pen tray Penholder Sugar scoop First spoon Bird's perch Boot-jack Hammer handle Square flower-stick Shoe-brush box Key label Second spoon Stool Slate pencil holder Bracket Knife box Stocking-stretcher Dibbler Salt box Trencher Forked clothes-pins Teapot stand Paper knife Flower stand Match box. Butter beater Flower cross

^{*} Slöjd has the same meaning as "sleight" in England, viz., dexterous feat or practice, only it is used of workmanship.

SWITZERLAND.

WE have already glanced at some of the forms of technical education in this remarkable country. Elementary and secondary education is free, and compulsory attendance is required up to fourteen years of age; 97.5 per cent of the children of all classes attend the public primary schools. The school on the Lindescher Platz, in Zurich, is an elementary school, but it cost £43,000, or £66 per head. Chemistry and physics are taught in the higher classes. There is a fine museum (as is usual in Zurich schools), which includes geographical relief maps of the Alps and their glaciers. botanical models, a complete herbarium, &c. There are in the canton of Zurich the gymnasium high schools, preparing scholars for the university or the polytechnic, and the trade school (industrieschule), which prepares for the polytechnic, or for direct entrance into trade. Pupils enter the gymnasium at twelve, and leave at eighteen or nineteen, and if they gain the leaving certificate they are admitted to any university or polytechnic without an entrance examination. The industries chule is entered at fourteen, and has a three-and-a-half years' course. From the second class onwards the school separates into two divisions, (a) a technical section and (b) a commercial section. The girls' high schools are attended by young people between twelve and sixteen of all classes. no regard being had to social position. Except needlework and English, all the subjects are taught by male teachers. A study of the programmes of education in the Zurich Cantonal school would benefit those persons in England who still try to beggar education, to keep schools on a class footing and close their doors and windows to the free air of public management. The canton spends on education 32 per cent of its whole expenditure. besides the outlay of communes for the primary schools.

The supply of youths of superior and scientific education in Switzerland is greater than the demand, and many remain workmen or go to some other country. The head men of establishments have nearly all been through the polytechnic or a technical school. There is a great desire among the young men to travel to England and see the large undertakings of the North of England. The youths of Switzerland have advantages second to those of no country in the world. By means of the chemical knowledge imparted in the laboratories of the polytechnic, Switzerland has supplied men for works at home and abroad who, as the Royal Commissioners assert, have repaid ten times over in the dyeing industry alone the whole cost of the polytechnic. The colour manufactures of Switzerland are due to the polytechnic. Swiss coal tar manufactures were valued at £300,000 at that time, while those of France were only of the same

value, and those of England £500,000. Nearly all the raw and semiraw materials for this manufacture had been imported, many of them from England. It has been shown that the laboratories of Switzer-

land have brought millions of capital into the country.

Swiss Dairying, &c.—Cheese and butter making are taught at a dairy station at Perolles (Fribourg), the dairy school de la Rutti (Berne), and at a dairy school at Sornthal (St. Gall). Here the centrifugal separators are driven by hydraulic power. There is a chemical laboratory, and an exhibition of dairy utensils on sale. Subjects of theoretical instruction are the shed, feeding, improvement of cattle, swine, cheese factories, milk, butter and cheese, management. Practice follows theory, and the use of the densometer, lacto-fermentator, lacto-coagulator, &c., is taught.

ITALY.

This country has no Factory Acts, or compulsory education. There are, however, good technical schools at Como and other places. The population in 1888 was 30,565,253. In 1886 the number of scholars enrolled in secondary schools was 184,096, of whom the scuole tecniche enrolled 27,131, and the instituti tecnici enrolled 7,381. The first prepare for industrial and commercial pursuits, and the second for the professions of civil engineering, surveying, &c. There are special schools for agriculture and mining, &c. The institute for the perfecting of higher studies in Florence, the normal school at Pisa, the scientific and literary academy and the higher technical school of Milan, and others, are of great value. But, speaking generally, Italy is educationally and industrially in the rear. Even in 1881 the illiterates of the population were returned as 62 per cent of the whole, and in 1889 as 48 per cent.

RUSSIA AND FINLAND.

There is no national system of elementary education in Russia. "Serfdom" excluded the working classes from all such rights up to 1860. They were the creatures of the proprietors. But the Government, like the great Napoleon in his day, have made liberal provision for professional and official education. The sons of merchants have had chiefly to seek education in Finland, the Baltic Provinces, and Poland, which, though within the Russian Empire, retain in part their own social institutions. The population is chiefly rural and migratory, and though powers of local government exist, the people are too poor or apathetic to use them to educational effect. There are only about four hundred textile establishments in the country, and the mechanical arts are not cultivated with great success. But better times may

be coming. A Labour Law has been passed forbidding employment under ten years, and limiting hours of work up to fourteen. The Government have also established two great imperial technical schools, which deserve to be considered as in the front rank of such institutions in Europe. (1) The Imperial Technical School of Moscow. This school seeks to train civil engineers, mechanical engineers, draughtsmen, foremen, and chemists. Teaching and practice are fully provided for in classrooms and workshops. Machines are constructed in the foundry, smithy, machine-tool and fitting department, and joiners' shop. Eight tons of metal a week can be turned out in castings. The course of study is six years, students entering at eighteen to twenty. There are about six hundred students, of whom one-half are boarders. The endowment of the school is £400,000, and the income about £34,000. The Technological Institute is another remarkable institution, with technical laboratories for the bleaching, dyeing, and printing of textile fabrics, for paper-making, and sugar-making. There are about one thousand students, and five elaborate courses are followed. as fully set out in Mr. W. Mather's sketch in Vol. III. of the Royal Commissioners' Report on Technical Education. About seventy to one hundred students graduate each year. The Handicraft and Industrial School is also a large one, and cost £45,000. It trains boys of poor parents, but others are admitted on payment. In 1885 the population of Russia exceeded 100,000,000, but the percentage at school was only 1.24. In Finland, however, a very different state of things prevails. Uno Cygnœus was the organiser of the Finnish school system, and he made manual training an integral part of the elementary school. He was sent out to Alaska to teach the natives, and it was there his plan was formed. Afterwards appointed Inspector General of the people's schools of Finland, he established a remarkable system of combined literary, scientific, and industrial education. The enrolment of scholars has now advanced to 17 per cent in a population of 2,225,000. The illiterates are less than 5,000 in that number. One-seventh of the scholars are in secondary schools, one-half of the number being girls. Over 150,000 scholars were in ambulatory schools. The Agricultural Institute has fifteen agricultural schools under it, and a strong staff of specialists. It aids agriculture, encourages the use of agricultural machines and the cultivation of foreign plants, and devises plans for the reclamation of waste lands. Its staff includes one agricultural engineer, one government agronomist, eight provincial agronomists, ten assistant agronomists, eleven women dairy teachers, four other teachers of dairy farming, six teachers of horticulture, three instructors in ploughing, one expert in flax culture, two masters of forestry, one teacher of

arboriculture, two controllers of grain and seed, &c. The Polytekuiska Institutet also prepares students to become architects, builders, mechanical engineers, or "kemisk teknolog," i.e., experts in the chemistry of building materials. It has thirty-one professors. Besides these there are seven navigation schools, thirty-one Sunday schools for apprentices, sixteen dairy schools, twelve trade schools, and commercial schools with a splendid course, including Swedish, Finnish, German, and English languages (Russian and French optional), book-keeping, correspondence, mathematics, physics and chemistry, national economy, penmanship, and gymnastics.

CONCLUSION.

The view with which this article has been written could not be more nobly stated than in a remarkable address delivered by M. Jules Ferry, a man to whom France owes so much of her present admirable system of education, at the laying of the corner-stone of the National School of Primary and Professional Instruction, at Vierzon, in 1883.

M. JULES FERRY ON TECHNICAL EDUCATION.

Engineers, managers of works, designers, superintendents; these are the cadres of French labour and industry. It is not with these that we here preoccupy ourselves; it is with the great working mass itself. . . Ah! gentlemen, I know the old doetrine—the aristocratic doctrine—which said: It is imprudent to give education to the people. It is imprudent to teach the workman anything beyond what is necessary for his daily task. He will take a dislike to his trade if he once looks beyond its lowly horizon. That, gentlemen, is an aristocratic conception, and a false conception. The democratic conception, which is ours, is precisely antipodal. We judge, in fact, that the more the workman shall be familiarised with the natural laws, of which he is too often the ignorant auxiliary, the better he will understand his daily labour, the more he will honour and love his trade. There is a fine saying of Channing, one of the men who have best loved the people and best known modern democracy. Channing has made the remark, that industrial labour—the labour of the shops—sets in operation incessantly all the discoveries of science and all scientific notions, the oldest as well as the newest, and he recommends statesmen to spread abroad in the shops these scientific knowledges, these positive conquests of humanity; for, says he, 'there is no more certain means of ennobling a manual profession than by showing the intimate relation which connects it with the natural laws of the world." To ennoble manual labour, gentlemen, is our wish also. . . And in order that

the nobility of manual labour may be recognised, the surest and only practical means have been taken—manual labour has been placed in the school itself. Be well assured that when the plane and the file shall have taken the same place—a place of honour—by the side of the compass, the chart, and the book of history, and shall be the object of an intelligent and systematic instruction, many prejudices will disappear; many antagonisms will vanish; social peace will begin on the benches of the primary school, and concord, with its radiant light, will illuminate the future of French society.

This noble language is fortunately not the vapouring of a theorist. It indicates a policy which the speaker did much, and his countrymen are doing more, to make a practical success in France. Ninetenths of the people of the nations are at work, and can only live by work. It is manifest, therefore, that public education should have some reference to work, should fit men for it, teach them to love it, and help the nation to win the desired reward. No evil could be greater than for children to begin life with a dread of work and a desire to substitute for it social accomplishments and idle pleasures.

The technical education of the world cannot be exhaustively surveyed in these pages. Enough, however, has been said to show that the movement in favour of adapted and specialised instruction is now in full course in almost every civilised nation. The old delusion that education and work are antithetical, that educated persons do not work, and that persons who work ought not to be educated, has been smitten, and is dying, with few to mourn over it. We cannot afford to have in our midst either the refined idler or the ignorant workman. Work is duty, not servitude, and enlightenment is the rightful inheritance of every child born into the world.

CO-OPERATIVE SOCIETIES IN THE UNITED KINGDOM.

STATISTICS SHOWING THE POSITION AND PROGRESS OF THE CO-OPERATIVE MOVEMENT FROM 1862 TO 1891.

WE again place before our readers a synopsis of the Trade of Co-operative Societies in the United Kingdom. The tables have been brought up to date on the basis of the Annual Returns by Societies to the Registrar of Friendly Societies, and corrected by the more recent returns to the Co-operative Union.

The tables refer to the United Kingdom, England and Wales, Scotland, and Ireland, and give the comparison between the figures of 1891, and those of ten years ago. We have also inserted below the figures relating to profits devoted to Education.

CO-OPERATION IN THE UNITED KINGDOM DURING 1881 AND 1891.

	1881.	1891.	PER CENT.
Societies (making returns)No.		1,684	35
MembersNo.	643,617	1,207,511	87
Capital (share and loan)£	$8,\!423,\!756$	17,241,099	104
Sales£	24,945,063	49,024,171	96
Profits£	1,981,109	4,718,532	138
Profits devoted to Education£	13,825	30,087	117

CO-OPERATION IN ENGLAND AND WALES DURING 1881 AND 1891.

1881.	1801.	PER CENT.
971	1,313	35
552,353	1,008,448	82
7,636,698	14,514,113	90
	39,617,376	86
1,657,564	3,781,254	128
13,314	27,196	104
	971 552,353 7,636,698 21,276,850 1,657,564	$\begin{array}{cccc} 071 & 1,313 \\ 552,353 & 1,008,448 \\ 7,636,698 & 14,514,113 \\ 21,276,850 & 39,617,376 \\ 1,657,564 & 3,781,254 \end{array}$

Co-operation in Scotland during 1881 and 1891.

	1881.	1891.	PER CENT.
Societies (making returns)No.	259	343	32
MembersNo.	90,430	196,796	117
Capital (share and loan)£	784,169	2,708,121	245
Sales£	3,649,155	9,304,321	154
Profits£	322,012	933,044	189
Profits devoted to Education£	508	2,891	469

Co-operation in Ireland during 1881 and 1891.

	1881.	1891.
Societies	10	 28
MembersNo.	834	 2,267
Capital (share and loan)£	2,889	 18,865
Sales £	19,058	 102,474
Profits £		 4,234

CO-OPERATIVE SOCIETIES,

TABLE (1).—GENERAL SUMMARY OF RETURNS

(Compiled from Official

		of Soci	ETIES		CAPITAL OF Y			
YEAR.	Registered in the Year.	Not Making Returns.	Making Returns.	Number of Members.	Share.	Loan.	Sales.	Net Profit.
					£	£	£	£
1862 1863 1864 1865 1866 1867 1868 1870 1871 1872 1873 1874 1875 1876 1877 1880 1881 1882 1883 1884 1885 1886 1887 1888	a454 51 146 101 163 137 190 65 67 56 141 226 130 117 82 67 52 69 66 67 78 84 83 87 100 193 122 117	g68 73 110 182 240 192 93 133 153 235 113 138 235 285 177 246 121 146 100 115 63 50 65 145 140 123 159	332 381 394 403 441 577 673 754 746 935 983 1,031 1,170 1,167 1,148 1,185 1,240 1,288 1,291 1,400 1,441 1,486 1,516 1,592 1,621 1,621 1,684	$\begin{array}{c} 90,341 \\ 111,163 \\ b129,429 \\ b124,659 \\ b124,659 \\ b144,072 \\ 171,897 \\ 211,781 \\ 229,861 \\ 248,108 \\ 362,188 \\ 330,550 \\ 387,765 \\ 412,733 \\ 480,076 \\ 508,067 \\ 529,081 \\ 560,993 \\ 572,621 \\ 604,063 \\ 643,617 \\ 687,158 \\ 729,957 \\ 797,950 \\ 850,659 \\ 894,488 \\ 967,828 \\ 1,011,258 \\ 1,071,089 \\ 1,140,573 \\ 1,207,511 \\ \end{array}$	428,876 579,902 684,182 819,367 1,046,310 1,475,199 1,711,643 1,816,672 2,035,626 2,905,951 2,969,573 3,581,405 3,905,093 3,905,093 5,445,449 5,647,443 5,647,443 5,755,522 6,232,093 6,940 173 7,591,241 7,921,356 8,646,188 9,211,259 9,747,452 10,344,216 10,946,219 11,687,912 12,783,629 13,847,705	54,499 $76,738$ $89,122$ $107,263$ $118,023$ $136,734$ $177,706$ $179,054$ $197,029$ $215,453$ $371,541$ $496,830$ $587,342$ $849,990$ $919,772$ $1,073,275$ $1,145,717$ $1,496,343$ $1,341,290$ $1,483,583$ $1,622,431$ $1,577,086$ $1,830,836$ $1,945,834$ $2,160,090$ $2,253,576$ $2,452,887$ $2,923,711$ $3,169,155$ $3,393,394$	2,333,523 2,673,778 2,836,606 3,373,847 4,462,676 6 001,153 7.122,360 7,353,363 8,201,685 9,463,771 13,012,120 15,639,714 16,874,053 18,499,901 19,921,054 21,390,447 21,402,219 20,382,772 23,248,814 24,945,063 27,541,212 29,336,028 30,424,101 31,305,910 32,730,745 34,483,771 37,793,903 40,674,673 43,781,669 49,024,171	165.562 216,005 224,460 279,226 372,307 398,578 424,420 438,101 553,435 666,399 936,715 1,110,658 1,228,038 1,429,090 1,743,980 1,924,551 1,837,660 1,857,790 c1,868,599 1,981,109 2,155,398 2,434,996 2,723,794 2,988,690 3,070,111 3,190,309 3,454,974 3,734,546 4,275,617 4,718,532
						Totals	£605,684,602	£52,403,650

a The Total Number Registered to the end of 1862. b Reduced by 18,278 for 1864, by the Wholesale Society, and which were included in the returns from the Retail Board for 1881. d Includes Joint-stock Companies. e The return states this sum to be Corn Mills, Joint-stock Companies, Building Departments, Banks, Mortgages, Loans, &c.

UNITED KINGDOM.

for each Year, from 1862 to 1891 inclusive.

Sources, and Corrected.)

		CAPITAL INVESTED IN				
Trade Expenses.	Trade Stock.	Industrial and Provdnt. Societies, and other than Trade.	Joint-stock Companies.	Profit Devoted to Education.	Amount of Reserve Fund.	YEAR.
£	£	£	£	£	£	
127,749						1865
167,620					••••	186
163,147					• • • •	186
181,766			• • • •		• • • •	186
219,746		• • • •			••••	1866
255,923	583,539	d494,429	••••	3,203	32,629	186'
294,451	671,165	137,397	166,398	3,636	33,109	1868
280,116	784,847	117,586	178,367	3,814	38,630	1869
311,910	912,102	126,736	204,876	4,275	52,990	187
346,415	1,029,446	145,004	262,594	5,097	66,631	
479,130	1,383,063	318,477	382,846	6,696	93,601	187
556,540	1,627,402	370,402	449,039	7,107	102,722	187
594,455	1,781,053	418,301	522,081			187
686,178	2,095,675	667,825		7,949	116,829	187
1,279,856		007,820	$553,\!454$	10,879	241,930	187
1,381,961	2,664,042			••••	• • • •	187
1,494,607	2,648,282		• • • •			187
	2,609,729			••••	• • • •	1878
1,537,138	2,857,214		• • • •	10010	• • • •	1879
1,429,160	2,880,076	e3,447,347	• • • •	13,910	• • • •	1880
1 000 105	3,053,333	4 207 204		13,825		188
1,690,107	3,452,942	e4,281,264	• • • •	14,778		188
1,826,804	3,709,555	e4,497,718		16,788	• • • •	188
1,936,485	3,575,836	e4,550,890	••••	19,154		188
2,082,539	3,729,492	e5,433,120		20,712		188
1,800,347	4,072,765	e3,858,940		19,878		188
1,960,374	4,360.836	e4,491,483		21,380		188
2,045,391	4,556,593	e5,233,859		24,245		188
2,182,775	4,795,132	e5,833,278		25,455		188
2,361,319	5,141,750	e6,958,787		27,587		189
2,621,091	5,838,370	e6,394,867		30,087		189

23,927 for 1865, and 30,921 for 1866, being the number of "Individual Members" returned Societies. c Estimated on the basis of the returns made to the Central Co-operative "Investments other than in Trade," which may mean investments in the Wholesale, g Estimated.

CO-OPERATIVE SOCIETIES,

TABLE (2).—GENERAL SUMMARY of RETURNS

(Compiled from Official

	No. o	of Soci	IETIES			AT END		
YEAR.	Registered in the Year.	Not Making Returns.	Making Returns.	Number of Members.	Share.	Loan.	Sales.	Net Profit.
					£	£	£	£
1862 1863 1864 1865 1866 1867 1870 1871 1872 1873 1874 1875 1876 1877 1878 1880 1881 1882 1883 1884 1885 1886 1887	a454 51 146 101 163 137 190 65 67 56 138 225 128 82 66 52 51 67 62 65 67 62 84 82 84 82 84	968 73 110 182 240 192 93 133 153 235 104 135 227 240 119 146 100 113 165 57 47 62 140 130	332 381 394 403 746 748 746 927 978 1,026 1,163 1,165 1,144 1,181 1,177 1,230 1,276 1,282 1,391 1,431 1,474 1,579	90,341 111,163 b129,429 b124,659 b144,072 171,897 211,781 229,861 248,108 362,188 389,986 387,301 412,252 479,284 507,857 528,576 56,703 573,084 603,541 642,783 685,981 728,905 896,845 849,616 893,153 966,403 1,009,773	428,376 579,902 684,182 819,367 1,046,310 1,475,199 1,711,643 1,816,672 2,035,626 2,305,951 2,968,758 3,579,962 3,903,608 4,793,909 5,140,219 5,437,959 5,645,883 5,747,907 6,924,271 6,937,284 7,581,739 7,912,216 8,636,960 9,202,138 9,738,278 9,738,278 10,338,069 10,335,069	54,499 76,738 89,122 107,263 118,023 136,734 177,706 179,054 197,029 215,453 371,531 496,740 586,972 844,620 919,762 1,073,265 1,145,707 1,496,143 1,341,190 1,483,583 1,622,253 1,576,845 1,576,845 1,830,624 1,945,508 2,159,746 2,252,672 2,452,158	2,333,523 2,673,778 2,836,606 3,373,847 4,462,676 6,001,153 7,122,360 7,353,363 8,201,685 9,463,771 12,992,345 15,623,553 16,358,278 18,484,382 19,909,699 21,374,013 21,374,013 21,374,013 21,374,013 21,374,013 21,374,013 21,374,013 21,375,646 20,365,602 23,231,677 24,926 005 27,509,055 29,303,441 30,392,112 31,273,156 32,684,244 34,437,879 37,742,429	165,562 216,005 224,466 279,226 372,307 398,578 424,420 438,101 553,485 666,399 935,551 1,109,795 1,227,226 1,427,365 1,742,501 1,922,361 1,836,371 1,856,308 c1,866,839 1,979,576 2,153,699 2,432,621 2,722,103 2,986,155 3,067,436 3,187,902 3,451,577
1889 1890 1891	89 110 95	118 151 108	1,608 1,631 1,656	1,069,396 1,138,780 1,205 244	11,677,286 12,776,733 13,832,158	2,923,506 3,168,788 3,390,076	40,618,060 43,667,363 48,921,697	3,731,966 4,273,010 4,714.298
						Totals	£605,023,398	£52,363,153

a The Total Number Registered to the eud of 1862. b Reduced by 18,278 for 1864, by the Wholesale Society, and which were included in the returns from the Retail Board for 1881. d Includes Joint-stock Companies. e The return states this sum to be Corn Mills, Joint-stock Companies, Building Departments, Banks, Mortgages, Loans, &c.

GREAT BRITAIN.

for each Year, from 1862 to 1891 inclusive.

Sources, and Corrected.)

219,746 255,923 294,451 280,116 311,910 346,415 477,846 555,766	£ 583,539 671,165 784,847 912,102 1,029,446 1,383,063 1,627,402	### Industrial and Provdnt. Societies, and other than Trade. ###################################	£ 166,398 178,367 204,876 262,594	Profit Devoted to Education. £ 3,203 3,636 3,814 4,275	Amount of Reserve Fund. £	1862 1863 1864 1865 1866 1867 1868 1868
127,749 167,620 163,147 181,766 219,746 255,923 294,451 280,116 311,910 346,415 477,846 555,766	583,539 671,165 784,847 912,102 1,029,446 1,383,063	d494,429 137,337 117,586 126,736 145,004	166,398 178,367 204,876	3,203 3,636 3,814 4,275	32,629 33,109 38,630	1868 1864 1865 1866 1867 1868
167,620 163,147 181,766 219,746 255,923 294,451 280,116 311,910 346,415 477,846 555,766	583,539 671,165 784,847 912,102 1,029,446 1,383,063	d494,429 137,397 117,586 126,736 145,004	178,367 204,876	3,203 3,636 3,814 4,275	32,629 33,109 38,630	1868 1864 1865 1866 1867 1868
167,620 163,147 181,766 219,746 255,923 294,451 280,116 311,910 346,415 477,846 555,766	583,539 671,165 784,847 912,102 1,029,446 1,383,063	d494,429 137,397 117,586 126,736 145,004	178,367 204,876	3,203 3,636 3,814 4,275	32,629 33,109 38,630	1868 1864 1865 1866 1867 1868
163,147 181,766 219,746 255,923 294,451 280,116 311,910 346,415 477,846 555,766	583,539 671,165 784,847 912,102 1,029,446 1,383,063	d494,429 137,397 117,586 126,736 145,004	178,367 204,876	3,203 3,636 3,814 4,275	32,629 33,109 38,630	1864 1865 1866 1867 1868
181,766 219,746 255,923 294,451 280,116 311,910 346,415 477,846 555,766	583,539 671,165 784,847 912,102 1,029,446 1,383,063	d494,429 137,397 117,586 126,736 145,004	178,367 204,876	3,203 3,636 3,814 4,275	32,629 33,109 38,630	1865 1866 1867 1868
219,746 255,923 294,451 280,116 311,910 346,415 477,846 555,766	583,539 671,165 784,847 912,102 1,029,446 1,383,063	d494,429 137,397 117,586 126,736 145,004	178,367 204,876	3,203 3,636 3,814 4,275	32,629 33,109 38,630	1866 1867 1868
255,923 294,451 280,116 311,910 346,415 477,846 555,766	583,539 671,165 784,847 912,102 1,029,446 1,383,063	d494,429 137,397 117,586 126,736 145,004	178,367 204,876	3,203 3,636 3,814 4,275	32,629 33,109 38,630	1867 1868
294,451 280,116 311,910 346,415 477,846 555,766	671,165 784,847 912,102 1,029,446 1,383,063	137,397 117,586 126,736 145,004	178,367 204,876	3,636 3,814 4,275	33,109 38,630	1868
280,116 311,910 346,415 477,846 555,766	784,847 912,102 1,029,446 1,383,063	117,586 126,736 145,004	178,367 204,876	3,814 4,275	38,630	
311,910 346,415 477,846 555,766	912,102 1,029,446 1,383,063	126,736 145,004	204,876	4,275		
346,415 477,846 555,766	1,029,446 1,383,063	145,004			52,990	1870
477,846 555,766	1,383,063			5,097	66,631	1871
555,766			382,846	6,696	93,601	1872
		370,402	449,039	7,107	102,722	1878
	1,781,053	418,301	522,081	7.949	116,829	1874
	2,094,325	667,825	553,454	10,879	241,930	1875
	2,664,042			10,010		1876
	2,647,309					1877
	2,609,729					1878
	2,857,214					1879
	2,878,832	e3,429,935	17,407	13,910		1880
	3,051,665	00,120,000	11,101	13,822		1881
	3,450,481	e4,281,243		14,778		1882
	3,706,978	e4,490,477	• • • • •	16,788		1888
	3,572,226	e4,543,388	••••	19,154		1884
	3,726,756	e5,425,319		20,712		1885
	4,068,831	e3,858,451	••••	19,878		1886
	4,354,857	e4,490,674	••••	21,380		1887
	4,550,743	e5,233,349	• • • •	24,238	• • • •	1888
	4,789,170	e5,832,435	••••	25,455		1889
	5,136,580	e6,958,131		27,587		1890
	5,832,573	e6,390,827	••••	30,087		1891
	0,002,010	23,550,521	****	00,007	60	

23,927 for 1865, and 30,921 for 1866, being the number of "Individual Members" returned Societies. c Estimated on the basis of the returns made to the Central Co-operative "Investments other than in Trade," which may mean investments in the Wholesale, g Estimated.

CO-OPERATIVE SOCIETIES,

TABLE (3).—GENERAL SUMMARY of RETURNS

(Compiled from Official

332 90,841 381 111,168 394 129,422 403 124,655 441 144,072 577 171,897 673 211,783 754 229,861 746 262,188 749 301,157 790 340,93 810 357,821 926 420,02: 937 444,547 896 461,666 963 490,58	£ 428,376 579,902 684,182 819,367 1,046,310 1,475,199 1,711,643 1,816,672 2,035,626 2,305,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,092,958	£ 54,499 76,788 89,122 107,263 118,023 136,734 177,706 179,054 197,029 215,453 344,509 481,808 498,052 742,073 774,809 916,955	£ 2,333,523 2,673,778 2,836,606 3,773,847 4,462,676 6,001,153 7,122,360 7,353,963 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	Ret Profit. £ 165,562 216,005 224,460 279,226 372,307 398,578 424,420 438,101 553,435 666,399 809,237 959,498 1,072,138 1,250,570 1,250,570
381 111,168 394 129,420 403 124,658 441 144,072 577 171,897 673 211,781 754 229,861 748 248,108 749 301,157 790 340,930 810 357,821 926 420,022 937 444,547 896 461,666 963 490,582	428,376 579,902 684,182 819,367 1,445,199 1,711,643 1,816,672 8 2,035,626 2,305,951 7 2,786,965 3,344,104 3,653,582 4,470,857 7 4,825,642 5,092,958	54,499 76,788 89,122 107,263 118,023 136,784 177,706 179,054 197,029 215,453 344,509 431,808 498,052 742,073 774,809 916,955	2,333,523 2,673,778 2,836,606 3,373,847 4,462,676 6,001,158 7,122,560 7,353,363 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	165,562 216,005 224,466 279,226 372,307 398,576 424,426 438,101 553,435 666,399 809,237 959,498 1,072,138
381 111,168 394 129,420 403 124,658 441 144,072 577 171,897 673 211,781 754 229,861 748 248,108 749 301,157 790 340,930 810 357,821 926 420,022 937 444,547 896 461,666 963 490,582	579,902 684,182 819,367 1,046,310 1,475,199 1,711,643 1,816,672 2,035,626 8 2,305,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,092,958	76,788 89,122 107,263 118,023 136,784 177,706 179,054 197,029 215,453 344,509 481,808 498,052 742,073 774,809 916,955	2,673,778 2,836,606 3,373,847 4,462,676 6,001,153 7,122,360 7,353,363 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	216,005 224,466 279,226 372,307 398,578 424,420 438,101 558,435 666,399 809,237 959,495 1,072,138 1,250,570
381 111,168 394 129,420 403 124,658 441 144,072 577 171,897 673 211,781 754 229,861 748 248,108 749 301,157 790 340,930 810 357,821 926 420,022 937 444,547 896 461,666 963 490,582	579,902 684,182 819,367 1,046,310 1,475,199 1,711,643 1,816,672 2,035,626 8 2,305,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,092,958	76,788 89,122 107,263 118,023 136,784 177,706 179,054 197,029 215,453 344,509 481,808 498,052 742,073 774,809 916,955	2,673,778 2,836,606 3,373,847 4,462,676 6,001,153 7,122,360 7,353,363 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	216,006 224,466 279,226 372,307 398,578 424,426 438,101 553,438 666,398 809,237 959,498 1,072,138
394 129,426 403 124,656 441 144,072 577 171,897 673 211,781 754 229,861 748 248,106 746 262,188 749 301,157 790 340,936 810 357,821 926 420,026 937 444,547 896 461,666 963 490,586	684,182 819,367 1,046,310 1,475,199 1,711,643 1,816,672 8 2,035,626 8 2,305,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,592,958	89,122 107,263 118,023 136,784 177,706 179,054 197,029 215,453 344,509 431,808 498,052 742,073 774,809 916,955	2,836,606 3,373,847 4,462,676 6,001,153 7,122,360 7,353,363 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	224,460 279,226 372,307 398,578 424,420 438,101 553,436 666,399 809,237 959,496 1,072,136
403 124,659 441 144,072 577 171,897 673 211,781 754 229,861 748 248,108 746 262,188 749 301,157 790 340,936 810 357,821 926 420,022 937 444,547 896 461,666 963 490,582	819,867 1,046,310 1,475,199 1,711,643 1,816,672 8 2,035,626 2,805,951 2,786,965 3,344,104 3,653,582 4,470,857 7 4,825,642 5,092,958	107,263 118,023 136,784 177,706 179,054 197,029 215,453 344,509 431,808 498,052 742,073 774,809 916,955	3,973,847 4,462,676 6,001,153 7,122,360 7,353,363 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	279,226 372,307 398,578 424,420 438,101 553,438 666,399 809,237 959,498 1,072,138 1,250,570
441 144,072 577 171,897 673 211,781 754 229,861 748 262,188 749 301,157 790 340,936 810 357,821 926 420,022 937 444,547 896 461,666 963 490,582	1,046,310 1,475,199 1,711,643 1,816,672 2,035,626 2,305,951 2,786,965 0,3344,104 3,653,582 4,470,857 7,4,825,642 5,092,958	118,023 136,784 177,706 179,054 197,029 215,453 344,509 431,808 498,052 742,073 774,809 916,955	4,462,676 6,001,158 7,122,360 7,353,363 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	372,307 398,578 424,420 438,101 553,438 666,399 809,237 959,409 1,072,138 1,250,570
577 171,897 678 211,781 754 229,861 748 248,108 746 262,188 749 301,157 790 340,930 810 357,821 926 420,022 937 444,547 896 461,666 963 490,582	1,475,199 1,711,643 1,816,672 2,035,626 3,205,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,092,958	136,734 177,706 179,054 197,029 215,453 344,509 431,808 498,052 742,073 774,809 916,955	6,001,153 7,122,860 7,353,863 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	398,578 424,420 438,10 553,483 666,399 809,23 959,499 1,072,139 1,250,570
673 211,781 754 229,861 748 248,108 746 262,188 749 301,157 790 340,930 810 357,821 926 420,022 937 444,547 896 461,666 963 490,584	1,711,643 1,816,672 2,035,626 3,2305,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,092,958	177,706 179,054 197,029 215,453 344,509 431,808 498,052 742,073 774,809 916,955	7,122,360 7,353,363 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	424,420 438,100 553,430 666,390 809,230 959,490 1,072,130 1,250,570
754 229,861 748 248,106 746 262,188 749 301,157 790 340,936 810 357,821 926 420,02c 937 444,547 896 461,666 963 490,586	1,816,672 2,035,626 2,305,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,092,958	179,054 197,029 215,453 344,509 431,808 498,052 742,073 774,809 916,955	7,853,363 8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	438,10 553,43 666,39 809,23 959,49 1,072,13 1,250,57
748 248,108 746 262,188 749 301,157 790 340,936 810 357,821 926 420,022 937 444,547 896 461,666 963 490,588	3 2,035,626 3 2,805,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,092,958	197,029 215,453 344,509 481,808 498,052 742,073 774,809 916,955	8,201,685 9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	553,43 666,39 809,23 959,49 1,072,13 1,250,57
746 262,188 749 301,157 790 340,936 810 357,821 926 420,024 937 444,547 896 461,666 963 490,584	3 2,305,951 2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,5092,958	215,453 344,509 431,808 498,052 742,073 774,809 916,955	9,463,771 11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	666,39 809,23 959,49 1,072,13 1,250,57
749 301,157 790 340,930 810 357,821 926 420,024 937 444,547 896 461,666 963 490,584	2,786,965 3,344,104 3,653,582 4,470,857 4,825,642 5,5092,958	344,509 431,808 498,052 742,073 774,809 916,955	11,397,225 13,651,127 14,295,762 16,206,570 17,619,247	809,23 959,49 1,072,13 1,250,57
790 340,986 810 357,821 926 420,024 937 444,547 896 461,666 963 490,584	3,344,104 3,653,582 4,470,857 4,825,642 5,092,958	431,808 498,052 742,073 774,809 916,955	13,651,127 14,295,762 16,206,570 17,619,247	959,49 1,072,13 1,250,57
810 357,821 926 420,024 937 444,541 896 461,666 963 490,584	3,653,582 4,470,857 4,825,642 5,092,958	498,052 742,073 774,809 916,955	14,295,762 16,206,570 17,619,247	1,072,13 1,250,57
926 420,024 937 444,547 896 461,666 963 490,584	4,470,857 4,825,642 5,092,958	742,073 774,809 916,955	16,206,570 17,619,247	1,250,570
937 444,547 896 461,666 963 490,589	4,825,642 5,092,958	774,809 916,955	17,619,247	
896 461,666 963 490,584	5,092,958	916,955		T'OAT'OO
963 490,584				1,680,37
	COOLEOPERO	965,499	18,697,788 18,719,081	1,583,92
937 504,117	5,374,179	1,324,970	17,816,037	1,565,92
953 526,686		1,324,310	20.129.217	1.600.00
971 552,35		1,205,145	21,276.850	1,657,56
1,012 593,269		1,293,595	23,607,809	1,814,37
990 622,873		1,293,393	24,776,980	2.036.82
1,079 672,780		1,359,007	25,600,250	2,030,82
		1,408,941	25,858,065	2,237,21
$\begin{bmatrix} 1,114 & 717,019 \\ 1,141 & 751,119 \end{bmatrix}$, ,	1,551,989	26,747,174	
				2,476,65
				2.542,88 $2.766,13$
				2,766,13
				3,393,99
				3,781,25
9	$egin{array}{cccccccccccccccccccccccccccccccccccc$	9 1,170 813,537 9,269,422 5 1,244 850,020 9,793,852 2 1,268 897,841 10,424,169 9 1,290 955,393 11,380,210	9 1,170 813,537 9,269,422 1,598,420 5 1,244 850,020 9,793,852 1,743,890 2 1,268 897,841 10,424,169 2,098,100 9 1,290 955,393 11,380,210 2,196,364 8 1,313 1,008,448 12,253,427 2,260,686	9 1,170 813,537 9,269,422 1,598,420 28,221,988 5 1,244 850,020 9,793,852 1,743,890 30,350,048 2 1,268 897,841 10,424,169 2,098,100 33,016,341 0 1,290 955,393 11,380,210 2,196,364 35,367,102

ENGLAND AND WALES.

for each Year, from 1862 to 1891 inclusive.

Sources, and Corrected.)

		CAPITAL IN	VESTED IN			
Trade Expenses.	Trade Stock.	Industrial and Provdnt. Societies, and other than Trade.	Joint-stock Companies.	Profit Devoted to Education.	Amount of Reserve Fund.	УЕАВ.
£	£	£	£	£	£	
127,749						186
167,620						186
163,147						186
181,766		1				186
219,746						186
255,923	583,539	494,429		3,203	32,629	186
294,451	671,165	137,397	166.398	3,636	33,109	186
280,116	784,847	117,586	178,367	3,814	38,630	186
311,910	912,102	126,736	204,876	4,275	52,990	187
346,415	1.029,446	145,004	262,594	5,097	66,631	187
419,567	1,219,092	300,712	380,043	6,461	79,292	187
488,464	1,439,137	337,811	443,724	6,864	83,149	187
517,445	1,572,264	386.640	510,057	7,486	98,732	187
598,080	1,852,437	636,400	538,140	10,454	220,011	187
1,137,053	2,377,380	000,400	000,140	10,101	220,011	187
1,222,664	2,310,041		••••		••••	187
1,315,364	2,286,795		••••		• • • •	187
1,353,832	2,486,704		••••		••••	187
1,285,875	2,512,039	†3,226,370	••••	13,262	••••	188
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,585,443	10,220,510	• • • •	13,314	• • • •	188
1,499,633	2,969,957	†3,919,455	••••	14,070	••••	188
1,606,424	3,160,569	†4,113,995	••••	15,903	• • • •	188
1,684,070	2,932,817	†4,118,751	••••	18,062	••••	188
1,825,717	3,044,534	†4,811,819	• • • •	19,374	• • • •	188
1,525,194	3,323,450	†3,475,319	• • • •	18 440	••••	188
1,670,290	3,512,626	†4,112,807		19,707	• • • •	188
1,743.838	3,687,394	†4,868,141	• • • •	22.391	• • • •	188
1,849,811	3,856,498	†5,386,444	••••	23,388	••••	188
1,996,438	4,121,400	†6,407,701	• • • •	24,919	• • • •	189
2,207,143	4,691,801	†5,749,811	• • • •	27,196	• • • •	189
2,207,149	4,031,001	10,740,011	••••	21,130	••••	100
		1.				

^{† &}quot;Investments at end of year"—the class not stated.

CO-OPERATIVE

TABLE (4).—GENERAL SUMMARY of RETURNS

(Compiled from Official

	Numb	ER OF SC	CIETIES			AT END YEAR.
YEAR.	Registered.	Not Making Returns.	Making Returns.	Number of Members.	Share.	Loan.
1872	25	38	178	38,829	£ 181,793	£ 27,022
1873	39	66	188	46,371	235,858	64,932
1874	15	50	216	54,431	250,026	88,920
1875	18	46	237	59,260	323,052	102,547
1876	10	57	228	63,310	314,577	144,953
1877	8	54	248	66,910	345,001	156,310
1878	4	54	218	70,119	381,028	180,208
1879	11	*40	208	68,967	373,728	171,173
1880	14	38	224	76,855	417,726	216,395
1881	12	9	259	90,430	505,731	278,438
1882	15	31	264	92,719	523,714	328,658
1883	13	7	292	106,034	630,768	373 081
1884	12	9	312	124,065	757,274	471,617
1885	11		317	132,597	837,771	536,567
1886	15	1	333	142,036	945,210	607,757
1887	11	1	334	152,866	1,063,647	654,252
1888	5	5	335	159,753	1,141,179	708,268
1889	8	6	340	171,555	1,253,117	825,406
1890	7	2	341	183,387	1,396,523	972,424
1891	7		343	196,796	1,578,731	1,129,390
						Totals

^{*} Not stated, but estimated at about 40.

SOCIETIES, SCOTLAND.

for each Year, from 1872 to 1891 inclusive.

Sources, and Corrected.)

_				Capi Invest		ted ou.	f nd.	
Sales.	Net Profit.	Trade Expenses.	Trade Stock.	Industrial and Provident Societies, and other titan Trade.	Joint-stock Companies	Profit Devoted to Education.	Amount of Reserve Fund	YEAR.
£ 1,595,120	£ 126,314	£ 58 279	£ 163,971	£ 17,765	£ 2,803	£ 235	£ 14,309	1872
1,972,426	150,302	67,302	188,265	32,591	5,315	243	19,573	1873
2,062,516	155,087	76,103	208,789	31,661	12,024	463	18,097	1874
2,277,812	176,795	87,038	241,888	31,425	15,314	425	21,919	1875
2,290,452	201,117	142 339	286,662					1876
2,676,225	241,991	158,621	337,268			••		1877
2,666,565	252,446	178,478	322,934	••				1878
2,549,565	258,152	182,450	370,510					1879
3,102,460	266,839	142,428	366,793	203,565	17,407	648		1880
3,649,155	322,012		466,222			508		1881
3,901,246	339,324	190,190	480,524	†361,788		708		1882
4,526,461	395,795	212,456	546,409	†376,482		885		1883
4,791,862	484,893	249,227	639,409	†424,637		1,092		1884
5,415,091	566,540	254,710	682,222	†613 500		1,338		1885
5,937,070	590,785	272,502	745,381	†383,132		1,438		1886
6,215,891	645,018	287,583	842,231	†377,867		1,673		1887
7,392,381	685,446	297,728	863,349	†365,208		1,847		1888
7,601,719	750,423	329,150	932,672	†445,991	••	2,067		1889
8,300,261	879,019	361,209	1,015,180	†550,430	••	2,668		1890
9,304,321	933,044	410,057	1,140,772	†641,016	••	2,891		1891
88,228,599	8,421,342							

^{†&}quot;Investments at end of year;" the class of investment is not stated.

CO-OPERATIVE SOCIETIES, IRELAND.

TABLE (5).—General Summary of Returns for each Year, from 1872 to 1891 inclusive.

	Amount Heserve H	વર	:	:	:	67	:	:	15		:	:	:	:	:	:	:	:	:	:	:	:	_
	Profit Dev to Educat	ಚಿ	:	:	:	:	:	:	:	45	:	ಣ	:	:	:	:	:	:		:	:	:	-
1	Joint-stock Companies	3 %	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	_
CAPITAL INVESTED	Industrial and Prov. Societies.	ા	:	:	:	:	:	:	:	;	5	œ	+21	+7,241	17,505	14,801	:	1809	1510	+843	+656	14,040	
	Trade Stock.	ಘ	:	:	:	1,350	:	973	:	:	1,244	1,668	2,461	2,577	3,610	2,736	3,934	5,979	5,850	5,962	5,170	5,797	
• 5	Тгаде Ехрепses	32	1,284	774	206	1,060	464	919	765	856	857	1,039	2,284	1,924	3,188	2,112	2,651	2,501	3,825	3,814	3,672	3,891	
	Net Profit.	33	1,164	863	812	1,725	1,479	2,190	1,289	1,482	1,760	1,533	1,699	2,375	1,691	2,535	2,675	2,407	3,397	2,580	2,607	4,234	
	Sales.	ಞ	19,775	16,161	15,775	15,519	11,355	16,434	16,573	17,170	16,637	19,058	32,157	32,587	31,989	32,754	46,501	45,892	51,474	56,613	64,306	102,474	
AT END EAR.	Loan.	33	10	96	370	5,370	10	10	10	200	100	:	178	241	212	326	344	904	729	205	367	3,318	_
CAPITAL AT END OF YEAR.	Share.	વર	1,815	1,443	1,485	9,638	1,171	7,490	1,560	7,615	7,822	2,889	9,505	9,140	9,228	9,121	9,174	11,147	11,188	10,626	6,896	15,547	
	Yamber Tədməlf		564	464	481	792	210	505	230	537	522	834	1.177	1.052	1,105	1,043	1,335	1,425	1,485	1,693	1,793	2,267	
S	Making Returns.		œ	7.0	5	2	्य	4	4	9	9	10	12	6	6	10	12	12	13	13	16	87	
NUMBER OF SOCIETIES	Not Making Returns.		6	œ	70	ଠା	7	9	67	:	:	:	C)	70	9	က	က	70	10	10	00	14	
Σğ	.beretsigeA		ന	_	ଦୀ	-	:		:	П	01	4	-	:	CI	:	-	30	-	4	15	22	
	Year.		2781	•	•	1875	1876	1877	1878	6281	•		1882	-	•	•	1886	•	1888	1880	1890	1891	

† "Investments at end of year;" the class not stated.

CO-OPERATIVE SOCIETIES IN ENGLAND AND WALES WITH AN ANNUAL TRADE OF OVER £200,000.

(See Table 6, pages 510-11.)

THE number of societies under this head is thirty, of which thirteen are in Lancashire, nine in Yorkshire, four in Durham, and one each in Cheshire, Derbyshire, Devonshire, and Northumberland.

The combined sales of these thirty societies amount to £18,509,139, being 46 per cent of the entire sales of societies in England and Wales. The Wholesale Society comes first with a business of £9,300,904, followed by Leeds Society and Corn Mill, with sales amounting to £861,959; next come Sowerby Bridge Corn Mill, Barnsley British, Bolton, Newcastle-on-Tyne, Oldham Industrial, Gateshead, Bishop Auckland, Rochdale Pioneers, and Huddersfield Societies, all of whose sales considerably exceed £300,000. The sales of the remaining uineteen societies are under that sum.

CO-OPERATIVE SOCIETIES IN ENGLAND AND WALES WITH AN ANNUAL TRADE OF BETWEEN £100,000 AND £200,000.

(See Table 7, pages 512-13.)

THREE fresh societies make their appearance in table 7 this year, viz., Nelson, with a trade of £104,776; Brightside and Carbrook, £100,873; and Doncaster, £103,464.

Of the thirty-six societies coming under this head for 1892, Lancashire furnishes ten, Yorkshire ten, Durham five, Cumberland two, and Cheshire, Leicestershire, Derbyshire, Lincolnshire, Essex, Gloucestershire, Glamorgan shire, Kent, and Northumberland one each. Their total sales are £4,808,983, or nearly 13 per cent of the total sales of societies in England and Wales.

CO-OPERATIVE SOCIETIES,

BIRD'S-EYE VIEW TABLE (6), showing the Sales of all Societies which,

Bury District						
Rochdale Equitable Pioneers. Lancashire. 287,212 298,889 305,65		NAMES OF SOCIETIES.	COUNTIES.	1873	1874	1875
Rochdale Equitable Pioneers. Lancashire. 287,212 298,889 305,65				£	£	£
Rochdalc Co-op. Corn Mill	1	Rochdale Equitable Pioneers	Lancashire.			305,657
Co-operative Wholesale Society Sowerby Bridge Corn Mill Yorkshire 286,964 338,246 338,246 270,49 286,614 273,186 270,49 270,49 273,186 270,49 270,49 273,186 270,49 270,49 273,186 270,49 270,49 273,186 270,49 270,49 273,186 270,49 270,49 273,186 270,49 270,49 270,49 273,186 270,49						
Sowerby Bridge Corn Mill						
Face Halifax Industrial Yorkshire 264,137 273,186 270,496 390,64 390,654						
Compage Comp						
Totals						
Bury District						
Rochdale Cotton Manufact'ring Halifax Corn Mill		Oldham Industrial		213,600	237,845	253,438
Halifax Corn Mill	8	Bury District	Lancashire	209,382	223,622	212,814
	9		Lancashire.	1	209,654	
11 Oldham Star Corn Mill Lancashire	10					0
Manchester Equitable Lancashire Bolton Lancashire Lancashire Countries Count						
Bolton	-			1		
				1		••••
Barnsley British					••••	• • • • •
Coldham Equitable Counties				• • • • •		
Huddersfield Yorkshire	15	Barnsley British		••••		
Names of Societies.	16	Oldham Equitable	Lancashire.			
Names of Societies.	17	Huddersfield	Yorkshire			
Names of Societies.		TOTALS		3.451.389		
Rochdale Equitable Pioneers. Lancashire £ £ 252,070 252,070 252,070 252,070 250,070 200,0112 4,675,371 4,793,155 4 4,675,371 4,793,155 4,546,891 4,675,371 4,793,155 4,6851 4,675,371 4,793,155 4,6851 4,675,371 4,793,155 4,6851 4,675,371 4,793,155 4,6851 4,675,371 4,793,155 4,6851 4,675,371 4,793,155 4,000,000 395,502 343,72 400,000 395,502 343,72 326,17 326,17 326,17 326,17 326,17 326,17 326,17 326,17 326,17 326,201 324,46 326,201 324,46 326,201 324,46 326,201 324,46 326,201 324,46 326,201 324,46 326		7.00				
Rochdale Equitable Pioneers Lancashire 259,396 209,912 4,793,15 456,891 4,678,371 4,793,15 4		NAMES OF SOCIETIES.	COUNTIES.			
Rochdale Co-op. Corn Mill				£	£	£
Co-operative Wholesale Society Sowerby Bridge Corn Mill Yorkshire 499,260 395,502 343,72 226,17 4798,165 46,784 490,332 495,29 495,2	1	Rochdale Equitable Pioneers	Lancashire.	276,457	262,270	252,072
Co-operative Wholesale Society Sowerby Bridge Corn Mill Yorkshire 499,260 395,502 343,72 226,17 4798,165 46,784 490,332 495,29 495,2	2	Rochdale Co-op. Corn Mill	Lancashire.	259,396	209,912	
Sowerby Bridge Corn Mill Yorkshire 499,260 294,780 226,17						
5 Halifax Industrial Yorkshire. 206,058 224,780 226,17 6 Leeds Industrial and Corn Mill Yorkshire. 486,784 490,332 495,29 7 Oldham Industrial Lancashire. 235,672 344,647 330,03 8 Bury District Lancashire. 250,123 249,978 256,54 9 Rochdale Cotton Manufact'ring Halifax Corn Mill Yorkshire. 240,363 203,87 10 Halifax Corn Mill Lancashire. 240,363 203,87 11 Oldham Star Corn Mill Lancashire. 258,935 240,241 232,99 13 Bolton Lancashire. 295,437 326,201 324,46 14 Gateshead Durham 248,364 248,295 268,72 15 Barnsley British Yorkshire. 235,678 239,364 227,87 16 Oldham Equitable Lancashire. 235,678 239,877 286,686 312,71 18 Newcastle-upon-Tyne Nrthmbrlnd						
6 Leeds Industrial and Corn Mill Yorkshire. 486,784 490,332 495,29 7 Oldham Industrial Lancashire. 335,672 344,647 330,03 8 Bury District. Lancashire. 250,123 249,978 256,54 9 Rochdale Cotton Manufact'ring Lancashire. 250,123 249,978 256,54 10 Halifax Corn Mill Lancashire. 240,363 203,87 11 Oldham Star Corn Mill Lancashire. 258,935 240,241 232,99 13 Bolton Lancashire. 295,437 326,201 324,46 14 Gateshead Durham 248,364 248,295 268,72 15 Barnsley British Yorkshire. 253,512 266,616 260,11 16 Oldham Equitable Lancashire. 298,70 239,364 227,87 18 Newcastle-upon-Tyne Nrthmbrlnd 239,877 286,686 312,71 19 Accrington and Church Lancashire. 200,608	_					
7						
8 Bury District. Lancashire. 250,123 249,978 256,54 9 Rochdale Cotton Manufact'ring Lancashire. Yorkshire. 240,363 203,87 10 Oldham Star Corn Mill Lancashire. 258,935 240,241 232,99 13 Bolton. Lancashire. 295,437 326,201 324,46 14 Gateshead Durham. 248,364 248,295 268,72 15 Barnsley British Yorkshire. 253,512 266,616 260,11 16 Oldham Equitable Lancashire. 295,678 239,364 227,87 17 Huddersfield Yorkshire. 208,710 208,710 208,666 312,71 18 Newcastle-upon-Tyne Nrthmbrlnd 239,877 286,686 312,71 19 Accrington and Church Lancashire. 200,608 208,30 21 Brighouse Yorkshire. 200,608 208,30 22 Bradford Yorkshire. 200,608 208,30						
9 Rochdale Cotton Manufact'ring Lancashire Yorkshire Lancashire 258,935 240,241 232,99 240,241 240,241 232,99 240,241 240,241 240,241 240,241 240,241 240,241 240,241 240,241 240,241 240,241 240,241 240,241 240,241 240,241 24						
Halifax Corn Mill	8	Bury District	Lancashire.	250,123	249,978	256,545
11 Oldham Star Corn Mill Lancashire Lancashire Lancashire 258,935 240,241 232,99 326,201 324,46 46 47 47 47 47 47 47	9	Rochdale Cotton Manufact'ring	Lancashire.			
11 Oldham Star Corn Mill Lancashire Lancashire Lancashire 258,935 240,241 232,99 326,201 324,46 46 47 47 47 47 47 47	10	Halifax Corn Mill	Yorkshire		240,363	203,877
12 Manchester Equitable Lancashire 258,935 324,241 232,99 13 Bolton Lancashire 295,437 326,201 324,46 14 Gateshead Durham 248,364 248,295 268,72 15 Barnsley British Yorkshire 253,512 266,616 260,11 16 Oldham Equitable Lancashire 235,678 239,364 227,87 17 Huddersfield Yorkshire 208,710 18 Newcastle-upon-Tyne Nrthmbrlnd 239,877 286,686 312,71 19 Accrington and Church Lancashire 200,608 208,30 19 Accrington and Church Lancashire 20 Bishop Auekland Durham 21 Brighouse Yorkshire 22 Bradford Yorkshire 23 Pendleton Lancashire 24 Burnley Lancashire 25 Crook Durham 26 Plymouth Devonshire 27 Derby Derbyshire 28 Chester-le-Street Durham 29 Dewsbury Yorkshire 20 Dewsbury Yorkshire 21 Crewe Friendly Cheshire 22 Lancashire 23 Leigh Lancashire 3 Leigh Lancashire 4 Crewe Friendly Cheshire 5 Lancashire 5 Lancashire 5 Lancashire 5 Lancashire 5 Lancashire 5 Lancashire 6 Lancashire 7 Lancashire 8 Lancashire 9 Lancashire 10 Lancashire 11 Lancashire 12 Lancashire 13 Lancashire 14 Cancashire 15 Cancashire 16 Cancashire 17 Cancashire 17 Cancashire 18 Cancashire 19 Cancashire 10 Cancashire 10 Cancashire 11 Cancashire 12 Cancashire 13 Cancashire 14 Cancashire 15 Cancashire 16 Cancashire 17 Cancashire 18 Cancashire 19 Cancashire 10 Cancashire 11 Cancashire 12 Cancashire 13 Cancashire 14 Cancashire 15 Cancashire 16 Cancashire 17 Cancashire 18 Cancashire 19 Cancashire 10 Cancashire 10 Cancashire 11 Cancashire 12	11	Oldham Star Corn Mill				
13 Bolton					240 241	232 998
14 Gateshead Durham 248,364 248,295 268,72 15 Barnsley British Yorkshire 253,512 266,616 260,11 16 Oldham Equitable Lancashire 235,678 239,364 227,87 17 Huddersfield Yorkshire 208,710 18 Newcastle-upon-Tyne Nrthmbrlnd Accrington and Church Lancashire 239,877 286,686 312,71 19 Accrington and Church Lancashire Durham 248,364 248,295 266,616 260,11 10 Accrington and Church Lancashire 208,710 11 Brighouse Yorkshire 200,608 208,30 12 Bradford Yorkshire Lancashire Each						
15 Barnsley British Yorkshire. 253,512 266,616 260,11 16 Oldham Equitable Lancashire. 235,678 239,364 227,87 17 Huddersfield Yorkshire. 208,710 18 Newcastle-upon-Tyne Nrthmbrlad 239,877 286,686 312,71 19 Accrington and Church Lancashire. 200,608 208,30 20 Bridhouse Yorkshire. 220,608 208,30 21 Brighouse Yorkshire. 221 Bradford Yorkshire. 222 Bradford Uurham 239,877 240,608 208,30 20 Pendleton Lancashire. Eancashire. Ea						
16						
17						
18 Newcastle-upon-Tyne Nrthmbrlnd 239,877 286,686 312,71 19 Accrington and Church Lancashire 200,608 208,30 20 Bishop Auckland Durham 200,608 208,30 21 Brighouse Yorkshire 30 30 22 Bradford Yorkshire 30 30 23 Pendleton Lancashire 30 30 24 Burnley Lancashire 30 30 25 Crook Durham 30 30 26 Plymouth Devonshire 30 30 27 Derby Derbyshire 30 30 30 28 Chester-le-Street Durham 30 <td></td> <td></td> <td></td> <td></td> <td>239,364</td> <td> 227,878</td>					239,364	227,878
19 Accrington and Church Lancashire 200,608 208,30	17	Huddersfield	Yorkshire	208,710		
19	18	Newcastle-upon-Tyne	Nrthmbrlnd	239,877	286,686	312,719
20 Bishop Auckland Durham	19		Lancashire.		200,608	208,307
21 Brighouse Yorkshire. 22 Bradford. Yorkshire. 23 Pendleton Lancashire. 24 Burnley Lancashire. 25 Crook Durham 26 Plymouth Devonshire. 27 Derby Derbyshire. 28 Chester-le-Street Durham 29 Dewsbury Yorkshire. 30 Crewe Friendly Cheshire 31 Leigh Lancashire.				1		,
22 Bradford Yorkshire 23 Pendleton Lancashire 24 Burnley Lancashire 25 Crook Durham 26 Plymouth Devonshire 27 Derby Derbyshire 28 Chester-le-Street Durham 29 Dewsbury Yorkshire 30 Crewe Friendly Cheshire 31 Leigh Lancashire						1 1 11
23 Pendleton Lancashire. 24 Burnley Lancashire. 25 Crook Durham 26 Plymouth Devonshire. 27 Derby Derbyshire. 28 Chester-le-Street Durham 29 Dewsbury Yorkshire. 30 Crewe Friendly Cheshire 31 Leigh Lancashire.				į.	••••	• • • • •
24 Burnley Lancashire 25 Crook Durham 26 Plymouth Devonshire 27 Derby Derbyshire 28 Chester-le-Street Durham 29 Dewsbury Yorkshire 30 Crewe Friendly Cheshire 31 Leigh Lancashire					••••	
25 Crook Durham Devonshire Derby Derby Derbyshire Durham Devonshire Derbyshire Durham Dewsbury Yorkshire Durham Devonshire Durham Dur						• • • •
26 Plymouth Devonshire. 27 Derby Derbyshire. 28 Chester-le-Street Durham 29 Dewsbury Yorkshire 30 Crewe Friendly Cheshire 31 Leigh Lancashire			Lancashire.		• • • •	
27 Derby Derbyshire 28 Chester-le-Street Durham 29 Dewsbury Yorkshire. 30 Crewe Friendly Cheshire 31 Leigh Lancashire.	25		Durham			
27 Derby Derbyshire 28 Chester-le-Street Durham 29 Dewsbury Yorkshire. 30 Crewe Friendly Cheshire 31 Leigh Lancashire.	26	Plymouth	Devonshire.			
28 Chester-le-Street Durham 29 Dewsbury Yorkshire 30 Crewe Friendly Cheshire 31 Leigh Lancashire	27			i		
29 Dewsbury Yorkshire 30 Crewe Friendly Cheshire 31 Leigh Lancashire						-
Crewe Friendly Cheshire Cheshire .				••••	• • • •	
31 Leigh Lancashire					••••	
TOTALS	31				••••	
		Totals		8,601,154	8,901,166	8,736,074

ENGLAND AND WALES.

OF SALES.

during the years 1873 to 1892, exceeded £200,000 a year.

1876	1877	1878	1879	1880	1881	1882	
£	£	£	£	£	£	£	
305,191	311,715	299,039	270,070	283,655	272,141	274,627	1
500,101	252,045	285,920	270,337	301,836	299,672	286,966	2
0 607 966	2,827,052	2,705,625	2,645,331				
2,697,366				3,339,681	3,574,095	4.038,238	3
406,017	460,013	468,001	447,301	565,194	589,929	594,664	4
237,754	237,447	209,571		207,539			5
365,639	374,166	358,865	360,017	412,225	432,811	438,478	6
284,977	316,903	279,999	261,813	303,012	310,387	320,336	7
231,692	251,057	241,886	217,282	231,918	225,689	240,227	8
							9
207,648	244,262	224,018					10
	219,664			1			11
			208,513	242,966	242,535	254,124	12
• • • •	••••		200,010	242,300			
••••	••••		••••	••••	219,657	254.414	13
• • • • •	• • • •		••••		200,261	225 202	14
• • • •	• • • •	••••	• • • •	••••	• • • •	215,421	15
						210,581	16
						201,718	17
4,736,284	5,494,324	5,072,924	4,680,664	5,888,026	6,367,177	7,554,996	
1886	1887	1888	1889	1890	1891	1892	
£	£	£	£	£	£	£	
246,031	256,736	267,727	270,675	270,583	296,025	302,454	1
			201,159	235,274	315,596	254,062	2
5,223,179	5,713.235	6,200,074	7,028,944	7,429,073	8,766,430	9,300,904	3
333 655	357,886	406,185	430,703	472,668	525,734	457,673	4
224,870	224,259	223,217	231,256	241,262	256,326	272,967	5
480,204	526,002	558,771	639,223	692,435	802,936	861,959	6
					378,008	380,861	7
312,230	322,090	337,368	350,698	345,335			
240,239	236,042	241,033	246,112	262,624	288,821	293,317	8
	206,549	206,549	206,490		220,348	221,310	9
	222,008			216,516	280,226	274,576	10
							11
229,886	233,181	249,340	267,960	282,957	298,154	290,960	12
335,877	327,288	357,001	392,458	428,529	496,011	516,906	13
269,585	266,005	272,877	282,186	301,347	334,053	344,797	14
283,903	293,876	292,635	327,704	395,433	498,489	531 964	15
						267,446	
228,946	228,523	233,454	242,959	254,074	271,883		16
209,426	252,682	269 865	287 844	294,357	312,865	307 116	17
338,030	328,848	327,911	338,339	380,895	432,338	445,004	18
209.291	211,226	214,728	209,776		206,140	207.945	19
200,931	209,969	212,471	229,224	266,886	266,886	308,426	20
	204,127	209,948	219,917	225,464	241 008	232,648	21
		202,930	224,911	223,265	256,500	290,930	22
		204,501	225,488	240,827	279,942	290,710	23
		213,219	238,824	256,530	281,727	298,019	24
••••		210,219	200,024		201,121	203,953	25
• • • • •		••••		221,269	940.675		
			• • • • •	212,113	240,675	240,570	26
• • • • •		• • • •			206,315	213,889	27
					213,846	202,596	28
		1			200,255	237.147	29
					213,703	226.566	30
						$\frac{226.566}{231,464}$	30 31

CO-OPERATIVE SOCIETIES—ENGLAND AND WALES.

BIRD'S-EYE VIEW OF SALES.

TABLE (7), showing the Sales of all Societies which, during the years 1889 to 1892, were over £100,000 and under £200,000 a year; also Sales of the same Societies for the year 1882.

1892.	સ	(over)	116,337	129,453	119,818	(over)	121,977	(over)	159,583	147,343	:	(over)	(over)		:	112,520	114,551	110,773	177,107	128,488
1891.	વ્ય	(over)	110,017	127,264	134,701	(over)	112,216	(over)	177,637	168,402	117,362	(over)	138,753	118,753	119,956	113,000	111,063	103,857	174,079	127,293
1890.	વા	187,837	:	106,112	144,694	180,204	:	(over)	148,232	157,161	103,938	190,236	(over)	:	116,527	101,475	:	:	154,292	103,886
1889.	વ્ય	167.214	` :	100.614	157,731	152,304	:	184,733	118,370	160,494	:	173,875	184,684	:			::		155,973	:
1882.	ಈ	119,636	40,776	87,023	137,948	101,905	53,268	114,959	42,131	116,778	36,296	99,364	129,024	. :	102,676	64,474	49,394	63,291	64,353	72,169
COUNTY.		Cheshire	Cheshire	Cumberland	Cumberland	Derbvshire	Derbyshire	Devonshire	Durham	Durham	Durham	Durham	Durham	Durham	Durham	Durham	Durham	Durham	Essex	Glamorgan
NAME OF SOCIETY.		Crewe Friendly	Stockport (Chestergate)	Carlisle			Ripley		lain	Blaydon	Cornforth and Coxhoe	Chester-le-Street	Crook	Derwent Flour Mill	Haswell	Jarrow Industrial	Stockton-on-Tees	Sunderland	Stratford	Cwmbach and Aberaman
No.		_	0.7	က	4	5	9	L-	œ	6	10	11	12	13	14	. 15	16	17	18	19

								-								-	_		_								_	 _	
123,485 143,108 (over)	108,380	139,834	131,075	110,042	(over)	104,776	197,629	129,314	143,627	148,479	(over)	151,859	183,203	115,095	:	133,083	100,873	(over)	103,464	(over)	157,931	161,324	103,789	126,950	106,642	134,874	122,430		4,808,983
121,209	115,198	128,941	121,266	113,510	167,549	:	:	115,774	133,536	149,380	(over)	138,581	175,662	109,571	100,908	131,181	:	(over)	:	(over)	168,016	159,144	125,542	123,098	104,937	134,610	123,615		5,085,743
112,943 132,697 199,550	183.749	114,192	104,586	105,025	108,557	:	:	106,955	114,754*	140,261	191,928	124,159	147,557	:	:	116,519		178,474	:	(over)	163,482	146,693	123,096	115,394	:	127.359	124,420		4,676,944
115,350 126,078	167.614	112,664	:	101,543	132,280	:	135,650	111,404	114,754	135,500	(over)	124,423	134,378	:	:	114,111		168,861	:	195,295	155,607	131,735	113,799	104,221	:	123.777	123,577		4,298,613
78,471 44,690 180,663	25,450 95,998	104,110	63,000	83,471	120,329	33,528	174,138	92,691	42,609	88,814	:	127,050	84,217	68,119	1,440	98,885	10,300	139,549	52,399	147,737	159,202	82,203	67,071	87,000	82,132	48,704	52,827		4,032,262
Gloucestershire. Kent	Lancashire	Lancashire	Lancashire	Lancashire	Lancashire	Lancashire	Lancashire	Lancashire	Lancashire	Lancashire	Lancashire	Leicestershire	Lincolnshire	Northumbrland.	Worcestershire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	Yorkshire	,	,-
Gloucester	Barrow-in-Furness	Failsworth	Farnworth and Kearsley	Heywood	Leigh	Nelson	Oldham Star Corn Mill	Over Darwen Industrial	Preston	Radeliffe and Pilkington	Rochdale Manufacturing	Leicester	Lincoln	Cramlington	Dudley	Batley	Brightside and Carbrook	Dewsbury	Doncaster	Halifax Flour	Heckmondwike	Keighley	Middlesbrough	Morley	Sowerby Bridge	Todmorden	Windhill		
22 23	2 2 2 3	25	56	27	28	53	30	31	35	33	34	35	36	37	38	33	40	41	42	43	44	45	46	47	48	49	50		

SALES OF CIVIL SERVICE SUPPLY STORES.

	Civil Service Supply.	Civil Service (Haymarket).	New Civil Service.
1871	£ 625,305	£	£
1872	712,399	••••	••••
1873	819,428	••••	••••
		••••	••••
1874	896,094	••••	••••
1875	925,332	••••	••••
1876	983,545	••••	••••
1877	946,780	••••	
1878	1,384,042	• • • •	••••
1879	1,474,923		• • • •
1880	1,420,619	514,399	
1881	1,488,507	520,155	139,367
1882	1,603,670	497,650	
1883	1,682,655	329,805	149,478
1884	1,691,455	481,560	148,975
1885	1,758,648	468,992	150,948
1886	1,743,306	465,096	150,383
1887	1,732,483	469,456	155,000
1888	1,763,814	473,817	158,028
1889	1,775,500	481,120	158,317
1890	1,789,397	481,352	164,160
1891	1,817,779	475,066	178,761
1892	1,749,384	471,133	168,582

Above we give the Sales of the Civil Service Supply Stores as distinct from the ordinary distributive societies appearing in the previous tables.

PUBLIC ACTS OF PARLIAMENT PASSED DURING THE SESSION 1892-93.

* * The figure before each Act denotes the Chapter.

56 and 57 of Victoria.

- 1. An Act to make further provision for the expenses of the Coinage Act 1891.
- 2. An Act to exempt from Income Tax the invested funds of trade unions applied in payment of provident benefits.
- 3. An Act to apply certain sums out of the Consolidated Fund to the service of the years ending March, 31, 1891-92-93-94.
- 4. An Act to provide during twelve months for the discipline and regulation of the Army.
- 5. An Act to consolidate and amend the law relating to the payment of regimental debts and the disposal of the effects of officers and soldiers in case of death, insanity, and other causes.
- 6. An Act to remove disabilities of policemen with regard to their votes in Municipal, School Board, and other elections.
- 7. An Act to grant certain duties of Customs and Inland Revenue, to repeal and alter other duties, and to amend the law relating to revenue.
 - 8. An Act to amend the Local Authorities Loans (Scotland) Act 1891.
 - 9. An Act to amend the Municipal Corporations Act.
 - 10. An Act to amend the Police Acts.
 - 11. An Act to amend the Public Libraries Act 1892.
- 12. An Act to make provision for the establishment of day industrial schools in Scotland, and to amend the Acts 1872 to 1883.
- 13. An Act to enable sanitary authorities in Ireland to take possession of land for the erection of temporary cholera hospitals.
- 14. An Act for further promoting the revision of the Statute Law by repealing Enactments which have ceased to be in force or become unnecessary.

PUBLIC ACTS OF PARLIAMENT PASSED DURING THE SESSION 1892-93.

- 15. An Act to amend the Acts relating to Reformatory Schools in Scotland.
- 16. An Act to apply a sum out of the Consolidated Fund to the service of the year ending March 31, 1894.
- 17. An Act to carry into effect an International Convention respecting the liquor traffic in the North Sea.
 - 18. An Act to reduce the limit of the balance of the Treasury Fund.
 - 19. An Act to amend the law relating to weights and measures.
- 20. An Act to extend the provisions of the Duchy of Cornwall Management Act 1863, relating to the powers of sale and enfranchisement, and for other purposes.
 - 21. An Act to amend the law relating to the avoidance of voluntary conveyances.
- 22. An Act to amend the Appellate Jurisdiction Act 1876 so far as regards appeals in forma pauperis.
- 23. An Act to provide the prohibiting the catching of seals at certain periods in the Behring Sea and other parts of the Pacific Ocean adjacent to the Behring Sea
 - 24. An Act to grant money for the purpose of certain local loans.
 - 25. An Act to amend the Burgh Police (Scotland) Act 1892.
- 26. An Act to explain and amend certain provisions of the Prison Act 1877 with respect to the superannuation of prison officers.
- 27. An Act to appoint additional Commissioners for executing the Acts for granting a Land Tax and other rates and taxes.
- 28. An Act to apply a sum out of the Consolidated Fund to the service of the year ending March 31, 1894.
- 29. An Act to amend the law with respect to the hours of labour of railway servants.
 - 30. An Act to amend the Friendly Societies Act 1875.
 - 31 An Act to explain the Rivers Pollution Prevention Act 1876.
- 32. An Act to prevent the use of barbed wire for fences in roads, streets, lanes, and other thoroughfares
- 33. An Act to remove certain doubts as to the application of Part III. of the Housing of the Working Classes Act 1890, to certain authorities in Ireland.
- 34. An Act to extend the operation of the Improvement of Land Act 1864 so . far as regards Scotland.
- 35. An Act to amend the power of Congested Districts Board of Ireland so far as respects the purchase and holding of property.

PUBLIC ACTS OF PARLIAMENT PASSED DURING THE SESSION 1892-93.

- 36. An Act to amend the Law of Distress and Small Debts (Ireland) Act 1888.
- 37. An Act to better define the jurisdiction and to improve the procedure of the Court of Passage in the city of Liverpool, and tor other purposes connected therewith.
 - 38. An Act to make further provision for the conveyance of Her Majesty's mails.
- 39. An Act to consolidate and amend the laws relating to industrial and provident societies.
 - 40. An Act to make provision for certain purposes relating to local loans.
 - 41. An Act to amend the Irish Education Act 1892.
- 42. An Act to make better provision for the elementary education of blind and deaf children in England and Wales.
- 43. An Act to confer further powers under the Contagious Diseases (Animals) Acts 1878 to 1892 with respect to swine fever.
- 44. An Act to make provision in regard to the consignation of money in the Sheriffs Courts, Scotland.
- 45. An Act to make further provision for the completion and equipment of ships under the Naval Defence Act 1889, and to amend that Act.
- 46. An Act to apply a sum out of the Consolidated Fund to the service of the year ending March 31, 1894.
- 47. An Act to amend the Public Health (London) Act 1891 with respect to the removal of refuse.
 - 48. An Act to amend the law relating to reformatory schools.
- 49. An Act to amend the law relating to the appointment of county surveyors in Ireland.
 - 50. An Act to amend the provisions as to payment for light railways in Ireland.
- 51. An Act to amend the Elementary Education Acts with respect to the age for attendance at school.
 - 52. An Act to amend the Burghs Gas Supply (Scotland) Act 1876.
 - 53. An Act relating to the Trustees Act.
 - 54. An Act relating to Statute Law Revision (No. 2) Act.
 - 55. An Act relating to the Metropolis Management (Plumstead and Hackney).
 - 56. An Act relating to Fertilisers and Feeding Stuffs.
 - 57. An Act relating to the Law of Commons Amendment Act.
 - 58. An Act relating to the Companies (Winding-up).
 - 59. An Act relating to the Expiring Laws Continuance Act.
 - 60. An Act relating to the Appropriation Act.

in respect thereof under the Commutation Acts, with separate columns showing the Amounts they receive or have Commuted, with the Amount of the Commutation Money, and the Name of the Office or Nature of the Service for which the Money is RETURN showing the Names of all present Members of this House who are in receipt of Public Money from the National Exchequel, whether in the form of Salary, Pay, Pension, or Albowance of any kind, or who have received Commutation or has been paid.

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Remarks.													
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Nature of Appointment.	MF.: 1041, TT	Adjutant, Hants Yeomanry.	Lieutenant, Royal 1st Devon Yeo-	manry	Captain, Scots Guards	Captain, Warwickshire Yeomanry.	Captain and Honorary Major,	Staffordshire Yeomanry	Captain, 4th Battalion, Gloucester-	shire Regiment	Lieutenant Colonel, 20th Hussars.	Colonel Commanding, South Notts	Yeomanry
Name.	Aiulio Doul of	Airle, Earl Ol	Ampthill, Lord		Annaly, Lord	Aylesford, Lord	Bagot, Lord		Bathurst, Earl		Beaumont, Lord	Belper, Lord	

See also payments from Consolidated Fund.		See also payments from Consolidated Fund.						See also payments from Consolidated Fund.								
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		Commander in Chief, and Coloner, Grenadier Guards	Major and Honorary Lieutenant Colonel, retired pay	General, active list	Colonel Commanding, Bucks Yeo- manry	Colonel Commanding, Herts Xeo- manry	General, retired list		Colonel Commanding, North Somerset Yeomanry	تّت				Vaptain, Worcestershire Yeomanry Major and Brevet Colonel 2nd	Life Guards	Colonel Commanding, Duke of Lancaster's Yeomanry
Blythswood, Lord Bridport, Viscount	Caledon, Earl of	Cambridge, H.R.H. Duke of	Carnwarth, Earl of	Chelmsford, Lord	Chesham, Lord	Clarendon, Earl of	Clarina, Lord	contract tracking	Cork and Orrery, Earl of	Craven, Earl of	Delamete, nota	De Ros, Lord	De Vesci, Viscount	Dudley, Earl	Dundonald, Earl of	Ellesmere, Earl of

HOUSE OF LORDS (SALARY, PAY, PENSION, OR ALLOWANCE).

Names of all present Members of the House of Lords who are in receipt of Public Money from Army Votes.—Continued.

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Romarks.						See also payments from Consolidated Fund.						
Amount Paid for Commutation of Pension.	£ s. d.	::	:	:	:	:	:	:	:	:	:	:
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Nature of Appointment.		Guards Captain, Herts Yeomanry Major and Colonel, Coldstream					Colonel Commanding, Lothians and Berwickshire Yeomanry	ٽ <u>;</u>		Major and Honorary Lieutenant Colonel, Warwickshire Yeomanry	General	
Name.	Errol, Earl of	Essex, Earl of. Falmouth, Viscount	Galway, Viscount	Gerard, Lord	Grafton, Duke of		Haddington, Earl of	Harewood, Earl of	maining with Earl of	Hertford, Marquis of	Howe, Earl	Kenyon, Lord

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Lieutenant Colonel Commanding, Shronshire Yeomanry	Major and Honorary Li	Rangers	Lieutenant, Lanarkshire Yeomanry	Lieutenant, 2nd Life Guards		District	Colonel Commanding, 3rd Battalion Argyll and Sutherland High-	landers	Yeomanry	Colonel Commanding, Royal East	Nent reomanny	Northumberland Fusiliers		Captain, Royal Monmouth Engineer Militia	ర	retired pay	Captain, Shropshire Yeomanry	Lieutenant, Coldstream Gnards		Gordon Highlanders	Under Secretary of State for War	5th Battalion, King's Royal Rifle	Corps	Vorkshire Dragoons Veemanry	Ξ
Kilmorey, Earl of	Kingston, Earl of		Lamington, Lord	Longford, Earl of	Methnen Lord		Móntrose, Duke of	Ditto.		Ormonde, Marquis of	Percy, Earl		Raglan, Lord	Ditto.	Richmond and Gordon,	Duke of.	Kodney, Lord	Romilly, Lord	Saltoun, Lord		Sandhurst, Lord	Sandwich, Earl of	7 T- E	Searborougn, Earl of	Shaftesbury, Earl of

Names of all present Members of the House of Lords who are in receipt of Public Money from Army Votes.—Continued.

Remarks.	£ s. d. 1,145 7 0 *Reduced from £230 by commutation on 7th August, 1889.		See also payments from Consolidated Fund.		See also payments from Consolidated Fund.
Amount Paid for Commutation of Pension.	£ s. d. 1,145 7 0	:	::	:::	:::
Allowance.	ж. г. d.	1 4 6	9 17 6	2 0 1 1 4 8 8	1,215 0 0
Pay.	£ s. d.	15 12 0	8 15 6 1,350 0 0	13 6 0 251 7 11 7 14 0	2,920 0 0 100 0 0 100 0 0
Nature of Appointment.	Strathallan, Viscount Captain and Honorary Lieutenaut Colonel, retired pay	Colonel Commanding, Staffordshire	Tenterden, Lord Lheutenant, Srd Battalion, York and Lancaster Regiment 8 15 Wales, H.R.H. Prince of Field Marshal	Colonel Commanding, Warwick-shire Yeomanry Captain, Coldstream Guards Major, Worcestershire Yeomanry. General Commanding Forces in	Treland Meritorious Service Reward Wounds Pension
Name.	Strathallan, Viscount	Sutherland, Duke of	Tenterden, Lord Wales, H.R.H. Prince of	Willoughby de Broke, Lord Winchester, Marquis of Windson, Lord	organia (Corocto)

The lunowing Cincers	6			ended the last	The following Officers would have been entitled to ray and Allowance had they attended the last Annual Training.
Name.	Nature of Appointment.	Pay.	Allowance.	Amount Paid for Commutation of Pension.	Remarks.
Ahingar Lond	Lientenant 2nd Battalion Cameron	£ s. d.	£ s. d.	£ s. d.	
Brave Lord	Highlanders	:	:	:	
Camden, Marquis	shire Regiment Second Lieutenant, West Kent	:	•	:	
Caminaton Lond	Yeomanry	:	:	:	
מניות פניין, דסומר ייייי	Oxfordshire Light Infantry	:	:	:	See also payments from
Deramore, Lord	Second Lieutenant, Yorkshire				Consolinated Fana:
Harris, Lord	Captain and Honorary Major,	:	:	:	
Hawke, Lord	Koyal East Kent Yeomanry Captain, 3rd Battalion, Yorkshire	:	:	:	
Home, Earl of	Regiment	:	:	•	
Hopetoun, Earl of	Yeomanry	:	:	:	
Huntingdon, Earl of	manry Captain, 3rd Battalion, Leinster	:	:	:	
Kintore, Earl of	Regiment	:	:	:	
Lovat, Lord	Gordon Highlanders	:	:	:	
Marlborough, Duke of	Highlanders Second Lieutenant, Oxfordshire	:	:	:	
Wenlock, Lord	Yeomanry Captain and Honorary Major.	:	:	:	
	Yorkshire Hussars Yeomanry	:		:	

RETURN of the Names of all present Menbeus of the House of Lords who are in receipt of Public Money from NAVY VOTES.

Romarks.	See also payments from Consolidated Fund.	Whilst on leave, the	table money of these officers is reduced or	suspended. See also payments from Consolidated Fund.		Is in occupation of an	official residence.	ions.
Amount Paid for Commutation of Pension.	£ s. d.	:	: :	: :	::		:	† Allowance in lieu of provisions.
Allowance.	ક 	1,825 0 0 *1,642 10 0	27 7 6 ‡27 7 6	*817 6 0	119 5 0	: : :	:	† Allowance in
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Pay.	£ s. d. 950 0 0	1,825	91	1,794 0 0	950	4	231 13 9	servant
Nature of Appointment.	Alcester, Lord Admiral (retired pay)	Clanwilliam, Earl of Admiral (full pay), Commander in Chief, Portsmouth	Wounds Pension	Admiral, Commander in Chief, Devonport	Admiral (retired pay)	Northampton, Marquis of. Admired (retired pay). Spencer, Earl. First Lord of the Admiralty.	York, H.R.H. The Duke of Captain (full and half pay; also allowances for period of employment in "Melampus.")	Money. † Allowance in lieu of servants.
Name.	Alcester, Lord	Clanwilliam, Earl of	Falinburgh H B H miss	Duke of	Hood of Avalon, Lord	Northampton, Marquis of	York, H.R.H. The Duke of	* Table Money.

LIC Money from the ments.	Remarks.	d. *Paid from the Civil List See also page 527. See also payments from Army Votes. See also payments from Army Votes.	See also payments from Army Votes.
receipt of Pubi Tenue Depart	Amount Paid for Commutation of Pension.	rg wi : : : : : : : : : : : : : : : : : : :	:
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ouse of	Pay.	2,000 0 2,000 0 2,000 0 2,000 0 0 2,000 0 0 1,200 0 0 2,500 0 0 2,500 0 0 2,500 0 0 1,500 0 0 1,500 0 0 7,00 0 1,500 0 0 7,00 0 1,500 0 0 7,00 0 0	12,000
RETURN of the Names of all present Members of the House of Lords who are in receipt of Public Money from the Consolidated Fund, Civil List, or Votes for Civil Services and Revenue Departments.	Nature of Appointment.	Majesty: Lord in Waiting Lord in Waiting Lord in Waiting Lord in Waiting Lord Chamberlain Treasurer of the Household Lord in Waiting Gaptain of the Yeomen of the Guard Governor of Round Tower, Windsor Lord in Waiting Master of the Horse Chancellor of the Order of the Garter Lord in Waiting Master of the Buckhounds Clerk of the Closet Captain of the Closet Captain of the Coops of Gentlemen- at-Arms Lord in Waiting Master of the Buckhounds Clerk of the Closet Captain of the Coops of Gentlemen- at-Arms Lord in Waiting	H.R.H. The 12,000 0
RETURN of the Names	Name.	*HOUSEHOLD OF HER Acton, Lord	Cambridge, H.R.H. The Duke of

Names of all present Members of the House of Lords who are in receipt of Public Money from the Consolidated Fund, Civil List, or Votes for Civil Service and Revenue Departments.—Continued.

tments.—Continued.	Allowance. Commutation of Pension.	£ s. d. £ s. d. See also payments from Army Votes. See also payments from Navy Votes. See also payments from See also payments from Army Votes. The all to Cornwall. The surplus of the Duchy Account is paid to the Prince of Wales. The sum of £36,000 a year is paid to Trustees under the Prince of Wales. Wales' (52 and 53 Vict. c. 35).
Kevenue Depar	Pay.	8,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 6,000 0 0 0
List, or Votes for Civil Service and Revenue Departments.—Continued.	Nature of Appointment.	Course of Tinange Duties
The state of the s	Name.	ANNUTTIES TO THE Connaught, H.R.H. The Duke of Edinburgh, H.R.H. The Duke of Wales, H.R.H.The Prince of Wales, H.R.H.The Prince of Wales, Lord Hannen, Lord Macnaghten, Lord Macnaghten, Lord Macnaghten, Lord Watson, Lord Watson, Lord

	Entitled to a judicial possion when not in office.	· · · · · · · · · · · · · · · · · · ·		0 0 See also page 525.	See also payments from Army Votes †OfficeallowanceatCairo 1,354 3 4 See also page 529.	0 0 With an official residence tallowance for petty repairs.	18,335 0 0 With an official residence (8 Allowanea for northy re-	1883:
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	6,000 0 0 4,000 0 0	20,000 0 0	5,000 0 0	15 0 0	109 10 0 3,000 0 0 5,000 0 0	9,000 0 0	2,500 0 0 965 0 0 550 0 0 7,000 0 0	•
Coursement for	se of Lords	Lord Lieutenant of Ireland Lord President of the Council	Secretary of State for the Colonies. Secretary of State, Foreign Office Under Secretary of State for War. First Lord of the Admiralty	Hereditary Crown Chamberlain of the Lordship of Strathearn High Commissioner to the General Assembly of the Church of Scotland	Ranger of Richmond Park Railway Commissioner Agent and Consul General at Cairo Constable of the Fort of Hills- borough	Ambassador at Paris Hereditary Keeper of Holyrood Palace Chairman of Committees House	of Lords Master of the Hawks Second Secretary, Diplomatic Service Ambassador at Rome	Pensions for Naval and Military Services: Aleester. Lord
Unn Marsons'e	Herschell, Lord	Houghton, Lord Kimberley, Earl of	Ripon, Marquis of Rosebery, Earl of Sandhurst, Lord Spencer, Earl		Cambridge, H.R.H. The Duke of Cobham, Viscount Cromer, Lord	Dufferin and Ava, Marquis of Hamilton, Duke of	St. Alban's, Duke of Vaux of Harrowden, Lord Vivian, Lord	Pensions for Naval

Names of all present Members of the House of Lords, who are in receipt of Public Money from the Consolidated Fund, Civil List, or Votes for Civil Service and Revenue Departments. - Continued.

Remarks.	\$0,835 0 0 53,890 0 0 See also payments from Army Votes. \$\times_{\text{c}} = \text{R} \text{See} \text{ also payments from Army Votes.} \text{See also payments from Army Votes.} \text{See also payments from Army Votes.} \text{\$\text{T} = \text{1874:} \text{25,000 0 0 } \text{\$\text{Single payments.} \text{\$\text{See also payments.} \text{\$\text{\$\text{See also payments.} \text{\$\text{\$\text{See also payments.} \text{\$\text{\$\text{See also payments.} \$\text{\$\text
Amount Paid for Commutation of Pension.	80,835 0 0 53,890 0 0 63,890 0 0 63,890 0 0 64,890 0 0 64,890 0 0 64,890 0 0 64,890 0 0 64,890 0 0
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Nature of Appointment.	Pensions for Naval and Military Services.—Con. Amherst, Lord Combermere, Viscount Exmouth, Viscount Hough, Viscount Hadingo, Viscount Napier of Magdala, Lord Nelson, Earl Raglan, Lord Rodney, Lord Seaton, Lord Wellington, Duke of Wolseley, Viscount
Name.	Pensions for Naval. Amherst, Lord Combermere, Viscount Exmouth, Viscount Hardings, Viscount Kaane Lord Napier of Magdala, Lord Nelson, Earl Raglan, Lord Redney, Lord Redney, Lord Wellington, Duke of Wellington, Duke of

	See also page 527.	8 See also payments from Army Votes.	
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JUDICIAL SERVICES: Late Lord Chancellor of Ireland. Late Lord of Appeal in Ordinary. Late Judge, Queen's Bench Division Late Lord Chancellor. Late Lord Chancellor. Late Judge of Probate Division Late Judge of Court of Sessions, Scotland	ಗ್ರಹ್ಣ ಸ್ಥ		ment Diplomatic Pension Late Clerk, Foreign Office Late Parliamentary Counsel
Ashbourne, Lord Blackburn, Lord Field, Lord Halsbury, Lord Moncrieff, Lord Penzame, Lord Selborne, Earl of Shand, Lord	MISCELLANEOUS Cross, Viscount Downshire, Marquis of Emly, Lord Grafton, Duke of	Iddesleigh, Earl of Lingen, Lord Napier and Ettrick Lord Norfolk, Duke of Sackville, Lord Sandford, Lord	Savile, Lord St. Germans, Earl of Thring, Lord

HOUSE OF COMMONS.

for which they sit, the Amounts they receive or have commuted, with the Amount of the Commutation Money, and the RETURN showing the Names of all present Members of the House of Comnons who are in receipt of Public Money from the NATIONAL EXCHEQUER, whether in the form of Salary, Pay, Pension, or Allowance of any kind, or who have received Commutation in respect thereof under the Commutation Acts, with separate columns showing the Names of the Constituencies Name of the Office or Nature of the Service for which the Money is or has been paid (in continuation of Parliamentary Paper, No. 396, of Session 1888).

RETURN of the Names of all Members of the House of Commons who are in receipt of Public Money from ARMY VOTES, &c. (From Official sources).

Remarks.				
Amount paid for Allowance. Commutation of Pension, &c.	£ s. d.	:	: :	: :
Allowance.	£ s. d. 2 10 0	22 19 0 14 9 1	10 13 10 10 10 11 10	1 17 0
Pay.	£ s. d. 5 16 8	22 19 0	21 12 0	200 15 0 5 16 8
Nature of Appointment.	Baird, J. G. A Glasgow, Central Captain, Ayrshire Yeomanry. Western Division, Lieut.ColonelandHon.Colonel Stafford-live Ath Rattallon North Stafford-		shire Regiment Captain 7th Battalion Rifle Brigade	Colonel and Lieut. Colonel, half pay, late Scots Guards. 200 15 0 Captain and Hon Major 5 16 8 1 17 0
Name of Constituencies.	Glasgow, Gentral Western Division,	Leek Division, Staf- fordshire.	Enfield Division, Middlesex.	Bolton
Name.	Baird, J. G. ABass, H. A.	Bill, C	Bowles, H. F Enfield Middleses	Bridgeman, Hon. F. C. Bolton Brymer, W. E Southern Division, Dorsetshire.

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_	Secretary of State for War 5,000 0	C/I	Captain West Kent Yeomanry		-	6.4	Yeomanry		Major General and Lieut, General, retire	_		Cantain and Hon Major		_	Colonel, retired pay 420	GI	Devonshi	_	Captain Lancashire Hussars		", Major noyal wills redinanty	0	Cornwall's Light Infantry
Northern Division, Northamptonshire.	Stirling District	Western Division,	Derbyshire. Maidstone	Rochester	Lichfield Division,	Stanordsinre. Chippenham Division,	Wiltshire.	Cheshire.	Chorley Division, North Laneashire.	Southern or Fareham	Division, Hampshire	North Western Divi	sion, Staffordshire.	Mid Tyrone Division,	Tyrone. North or Newport Di-	vision, Shropshire. South Molton Divi-		5	Newton Division.	South We	West Derby Division,	Western Division, Devonshire.	
Burghley, Rt. Hon. Lord Northern Division, Northamptonshire.	Campbell - Bannerman, Right, Hon, H.	Cavendish, V. C. W	Cornwallis, F. S. W	Cranbourne, Viscount	Darwin Leonard	Dickson-Poynder, SirJ.	P., Bart.	יישפונסחי דוסחי שי מס די	Fielden, R. J., C.M.G	FitzWygram, Sir F. W.	J., Bart.	Heath J		Kenny, M. J.	Kenyon-Slaney, W. S	Lambert, G		Lawson, H. L. W	Legh, Hon. T. W.	Long W H	TOTE, W. 11	Luttrell, H. C. F	

HOUSE OF COMMONS.

Names of all Members of the House of Commons who are in receipt of Public Money from Army Votes, &c.—Continued.

Name of Constituencies.
Mulholland, Hon. H. I. Northern Division, Major 5th Battalion Royal
Londonderry.
Noted October
Yeomanry. Lieut. Colonel and Hon.
shire Regiment
Yeomanry
Captain and Hon. Major Cheshire Yeomanry
Major, retired pay, Major and Hon. Lieut. Colonel West

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15 12 9	5 4 1 11	6 11	15 12 9 500 0 0	9 13 0
	Captain Srd Battailon Argyil and Sutherland Highlanders Lieut. Lancashire Yeomanry.	0	Regiment	Lieut Cheshire Yeomanry
North Somerset	whitelaw, G. A. L North West Lanca-shire. Whitelaw, W.	Vingfield-Digby, J. K North Dorsetshire	•	:
Warner, T. C. T	Whitelaw, W. A. L North West Lian Shire. Whitelaw, W.	Wingfield-Digby, J. K	Woodall, W Hanley	Wyndham, George Dover

The following Officers would have been entitled to Pay and Allowance had they attended the last Annual Training:-

															-
		:	:	:	:	:		:	:			:			:
	:	:	:	:	:	:		:	:			:			;
	:	:	:	:	:	:		:	:			:			:
Bagot, J. Fitz R Kendal, Westmorland Captain and Hon. Major Westmorland and Cumber-	Beckett, E. W Whitby, Yorkshire, Captain Yorkshire Hussars	Yeomanry Licut. Yorkshire Hussars	\circ	Fusiliers		Captain Leicester. Yeomanry	Captain 3rd Battalion Norfolk	Regiment	Mildmay, F. B Totnes, Devonshire Lieut. West Kent Yeomanry	Sandys, T. M Bootle, South West Lieut. Colonel Commandant	3rd and 4th Battalions North	Lancashire Regiment	Lieut. Colonel and Hou.	Colonel 4th Battalion Royal	Irish Fusiliers
Kendal, Westmorland	Whitby, Yorkshire,	North Riding. Brixton, Lambeth	Bury St. Edmunds	North Avrshire	,	Wycombe, Bucks	Ramsey, Hunting-	donshire.	Totnes, Devonshire	Bootle, South West	Lancashire.		North Armagh	,	
Bagot, J. Fitz R.	Beckett, E. W	Carmarthen, Marquis of Brixton, Lambeth	Chelsea, Viscount Bury St. Edmunds	Cochrane, Hon. T. H. North Ayrshire	A. E.	Curzon, Viscount Wycombe, Bucks	Fellowes, Hon. A. E Ramsey, Hunting-		Mildmay, F. B	Sandys, T. M			Saunderson, E. J North Armagh		

HOUSE OF COMMONS.

RETURN of the Names of all Menners of the House of Commons who are in receipt of Public Money from NAVY VOTES. In addition to Remarks. Allowance. Commutation of Amount paid Pension, &c. ರ. : : : οż ಕ : : : : : ŝ વર ö 0 0 0 Robertson, Edmd, LL.D. Dundee City | Civil Lord, Admiralty | 1,000 0 ż 0 Pay. 365 0 Counsel to the Admiralty and Judge Advocate of the Fleet. 100 0 Clitheroe miralty 2,000 0 Bethell, G. R. York, East Riding, Commander, R.N., retired pay. 200 Holderness. ಳ Carmiohael, Sir J. M., Glasgow, St. Rollox Inte Clerk, Secretary's Depart-Bart. ment, Admiralty, pension... Sussex, Eastbourne Vice Admiral, retired pay.... Kay-Shuttleworth, Rt. North East Lanca- Parliamentary Secretary, Ad-Nature of Appointment. Staffordshire, Kings-Constituencies. NameDivision. Division. Hill, Right Hon. A. Field, Edward...... Hon. Sir U., Bart. . . Staveley, Q.c. Name.

		CONSOLIDATED FUND, CIVIL LIST, OF VOIES JOY CIVIL SERVICE OF INEVENUE DEPARTMENTS.	VICE OF RE	VENUE DEP	ARTMENTS.	
	Name of Constituencies.	Nature of Appointment.	Pay.	Allowance.	Amount paid for for Commutation of Pension, &c.	Remarks.
HOUSEHOLD OF J Gower, G. G. Leveson. S Murray, Colonel C. J Wyndham.	Her Majery: Stoke-upon-Trent Bath Northampton, Mid	Comptroller of the Household Corps of Gentlemen at Arms Vice-Chamberlain	£ s. d. 904 0 0 70 0 0	£ ;	સ 	See also pay- ments from Army Votes.
		Vice-President of the Council 2,000 0 0 Solicitor General for Scotland 955 0 0	2,000 0 0	: :	: :	
Asquith, Rt. Hon.H. H. Balfour, Rt. Hon.J. B. Gurt, T	Fife, East	Secretary of State, Home Office 5,000 0 Lord Advocate, Scotland 3,237 10 Secretary to Board of Trade. 1,200 0 Under Secretary of State. Colonial Office	5,000 0 0 3,237 10 0 1,200 0 0 1,500 0 0		: : : :	
Campbell Bannerman, Right Hon H. Causton, R. K.	Stirling, &c Southwark, West Merionethshire Dorby, Ilkestone	Secretary of State for War Junior Lord of the Treasury 1,000 0 Junior Lord of the Treasury 1,000 0 Secretary to the Local Govern.		: ::		Paid from Army Votes.
Fowler, Rt. Hon. H. H. Gardner, Rt. Hon. H Gladstone, H. J	Fowler, Rt. Hon. H. H. Wolverhampton, East Gardner, Rt. Hon. H Essex, Saffron Walden Gladstone, H. J Leeds, West	. 1 . 44^	1,200 0 0 2,000 0 0 2,000 0 0 0	: : :		

HOUSE OF COMMONS.

Names of all Members of the House of Commons who are in receipt of Public Money paid from the Consolidated Fund, Civil List, or Votes for Civil Service or Revenue Departments - Continued.

d n Remarks.		Paid from Navy Votes.	In addition to fees. Paid from Navy Votes.
Amount paid for for Allowance. Commutation of Pension, &c.		!!!!!	!!!!!!!
Allowance.	ε s. d.	:: : :	
Pay.	£ s. d. 5,000 0 0 0 5,000 0 0 0	2,000 0 0 1,000 0 0 2,000 0 0	2,500 0 0 cland 4,425 0 0 Trade 2,000 0 0 6,000 0 0 iralty
Nature of Appointment.	First Lord of the Treasury and Lord Privy Seal 5,000 0 0 Under Secretary of State, Foreign Office 1,500 0 0 Chancellor of the Exchequer. 5,000 0 0	Hibbert, Right Hon. Oldham Financial Secretary to the Sir J. Kay-Shutleworth, Rt. Lancashire, Clitheroe Secretary to the Admiralty Mc.Arthur, W. A Cornwall, Mid, St. Junior Lord of the Treasury. 1,000 0 Marjoribanks, Right. Berwickshire Secretary to the Treasury 2,000 0 0 Hon. E.	Postmaster General Chief Secretary for Ir President of Board of Solicitor General Civil Lord of the Adm
Name of Constituencies.	HER MAESEY'S GOVERNMENT.—Con. Edinburgh, Mid. E. Jothian. Sir E., Bart Northumberland, Berwick. W. G. V.	Oldham Lancashire, Clitheroe Cornwall, Mid, St. Austell. Berwickshire	Morley, Right Hon. A. Nottingham, East Morley, Right Hon. J. Newcastle-upon-Tyne. Mundella, Rt. Hon. A.J. Sheffield, Brightside Rigby, Sir J
Name.	Her Majesty's Government.—Con. W. E. Grey, Sir E., Bart Northumberland, Berwick. Harcourt, Right. Hon. Derby	Hibbert, Right Hon. Oldham	Morley, Right Hon. A. Nottingham, East Morley, Right Hon. J. Newcastle-upon-Tyne. Mundella, Rt. Hon. A.J. Sheffield, Brightside Rigby, Sir J. Forfarshire Robertson, E. Dundee

In addition to fees. Paid from Army Votes.	no permanent				
: :: :	they hold I		:	:	: :
i ii i	nent, but as	rvice Votes:	:	:	: :
0 0 000%	6,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ihe Return. nd or Civil Se	2,000 0 0	1,200 0 0	1,000 0 0
Attorney General	1, Right Hon. A. W. Warwick and Leam- Speaker, House of Commons. 5,000 0 0 ington. Note.—Counsel retained by the Government are, in some instances, Members of Parliament, but as they hold no permanent	appointment they are not included in the Return. PENSIONS for SERVICES paid from Consolidated Fund or Civil Service Votes:	Hamilton, Right Hon. Middlesex, Ealing Pension for Political Services. 2,000 0 0	Pension for Political Services. 1,200 0 0	Russell, Sir George, Berks, Wokingham Pension as late County Court Judge
H. Sir Charles Hackney, South Lefevre, Right Bradford, Central G. J. G. O., Bart. Hanley Hanley Kt. Hon. J. W. York, West Riding,	Sowerby. Warwick and Leamington. ned by the Government	appoin	Middlesex, Ealing	Bristol, West	Berks, Wokingham Wolverhmptn., South
Russell, Sir Charles Hackney, South Shaw-Lefevre, Right Bradford, Central Hon. G. J. Trevelyan, Right Hon. Glasgow, Bridgeton Sir G. O., Bart. Woodall, W Hanley	Peel, Right Hon. A. W.		Hamilton, Right Hon.	Hicks-Beach, Rt. Hon. Sir M. Bart.	Russell, Sir George, Bart. Villiers, Rt. Hon. C.P.

ARMY COLONELS.

RETURN of Names of all Officers holding the Rank of Honorary Colonel in the Army who are in receipt of the Pax attached to that Rank. (From Official sources.)

I.—CAVALRY AND INFANTRY.

Pay.	£ 1,800 a, year. 1,185 1,185 1,185 1,1000 1,1000 1,000 1,000 1,000 1,000 1,185 .
Regiment.	180
Rank and Name.	General His Highness Prince W. A. E. of Saxe-Weimar, K. P., G.C.B. General R. W. P. Earl Hove, C.B. Lieut. General and Hon. General Sir C P. B. Walker, K.C.B. Lieut. General and Hon. General Sir C P. B. Walker, K.C.B. Lieut. General and Hon. General Lieut. General Lieut. General Sir C. C. Shute, K.C.B. Lieut. General and Hon. General Sir C. C. Shute, K.C.B. Lieut. General and Hon. General Sir C. C. Shute, K.C.B. Major General and Hon. Lieut. General W. T. Dickson Major General and Hon. Lieut. General W. T. Dickson Tieut. General and Hon. Lieut. General W. T. Dickson Tieut. General and Hon. Lieut. General W. Drysdale, K.C.B. Tieut. General and Hon. Lieut. General W. C. Forrest, C.B. Lieut. General and Hon. General W. C. Forrest, C.B. Lieut. General and Hon. General W. T. Sorney. Lieut. General and Hon. General W. Sorney. Lieut. General and Hon. General W. Sorney. Lieut. General and Hon. General C. W. Thompson Lieut. General and Hon. General C. J. Foster, K.C.B. Lieut. General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Lieut. General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General and Hon. Lieut. General C. J. Foster, K.C.B. Major General C. J. Foster, K.C.B. Major General C. J. Foster, K.C.B. Major General C. J.

£2,200 a year, pay as Colonel of the Grenadier Guards, is included in a consolidated rate of pay of £6,631.14s.2d.	
Grenadier Guards	The Royal Scots East Kent Regiment Royal Warwickshire Regiment Royal Warwickshire Regiment Suffolk Regiment Somerstaliers Norfolk Regiment Somerstalier Regiment Leicestershire Regiment Leicestershire Regiment Leotashire Regiment Leotashire Regiment Leotashire Regiment Royal Welsh Fusiliers King's Own Scottish Borderers Scottish Rifles Ist Battalion Royal ImiskillingFusiliers Gloucestershire Regiment Worcestershire Regiment Duke of Cornwall Light Infautry West Riding Regiment Ist Battalion Border Regiment Sad Batts. South Staffordshire Regiment Sad Batts. South Staffordshire Regiment South Lancashire Regiment South Lancashire Regiment Welsh Regiment Royal Highlanders Royal Highlanders
Field Marshal His Royal Highness the Duke of Cambridge, K.G., K T., Grenadier Guards K.P., G.C.B., G.C.S.I., G.C.M.G., G.C.I.E., A.D.C., Commander in Chief	General H. P. Raymond Lieut. General and Hon. General J. A. R. Raines, K.C.B. General Sir R. Wilbraham, K.C.B. General Sir R. Wilbraham, K.C.B. General Sir A. Borton, G.C.B., G.C.M.G. General J. M. Percival, G.B. General J. M. Percival, G.B. General J. M. Fervival, G.B. General Sir F. Horn, G.B. Major General and Hon. Lieut. General J. C. Guise, V.C., C.B. General Sir F. Horn, G.B. General Sir F. MacKinnon, C.B. General G. Crutchley. General G. R. Napier General G. H. MacKinnon, C.B. Lieut. General and Hon. General J. W. S. Smith, C.B. Lieut. General and Hon. General J. W. S. Smith, C.B. Lieut. General and Hon. General Sir W. Parke, K.C.B. General W. N. Hutchinson General J. T. Hill General Sir R. D. Kelly, K.G.B. General Sir H. C. B. Daubeney, G.C.B. Lieut. General and Hon. General C. Elmhirst, C.B. Lieut. General and Hon. General C. Elmhirst, C.B. Lieut. General and Hon. Lieut. General R. J. Eagar, C.B. Lieut. General and Hon. Lieut. General A. H. L. Fox-Pitt Rivers General D. E. Mackirdy General L. Sir A. A. Spencer, G.C.B.

ARMY COLONELS.

RETURN of Names of all Officers holding the Rank of Honorary Colonel in the Army who are in receipt of the Pax attached to that Rank. (From Official sources.)

CAVALRY AND INFANTRY.—Continued.

Rank and Name.	Regiment.	Pay.
General Sir C. W. D. Staveley, G.C.B. General Sir D. Lysons, G c B. (Constable of the Tower of London) Ist Batt. Loyal North Laneashire Regiment General H. Renny, C.S.I. General W. A. Mc. Cleverty General Sir E. A. Holdieh, R.C.B. Middlesex Regiment General Sir H. P. de Bathe, Batt. General Sir H. P. Warre, K.C.B. Middlesex Regiment General Sir H. J. Warre, K.C.B. North Staffordshire Regiment J.000 Worth Staffordshire Regiment J.000 Wo	Essex Regiment Derbyshire Regiment Derbyshire Regiment Ist Batt. Loyal North Laneashire Regimt. Sand Batt. Loyal North Laneashire Regimt. Shropshire Light Infantry Middlesex Regiment Wiltshire Regiment Worth Staffordshire Regiment York and Laneaster Regiment Durham Light Infantry	£ 1,000 a year. 1,000
General W. D. P. Patton-Bethune. General Sir E. S. Smyth, K.C.N.G. General Sir J. A. Ewart, K.C.B. General Sir R. C. H. Taylor, K.C.B. General A. H. Ferryman, C.B. General Sir P. L. MacDougall, K.C.M. G.	Highland Light Infantry 1,000 a year. Seaforth Highlanders 1,000 " Gordon Highlanders 1,000 " Cameron Highlanders 1,000 " Royal Irish Fusiliers 1,000 " Loinster Regiment 1,000 "	1,000 a year. 1,000 " 1,000 " 1,000 " 1,000 " 1,000 "

General R F. Copland-Crawford	£ 994 a year.
	,082 ,082
r C. L. D'Aguilar, G.C.B.	994 ,,
General Sir J. M. Adye, G C.B. Lient General and Hon. General Sir F A. Campbell, K.C.B.	994 ",
Lieut, General and Hon. General H. L. Gardiner, c.B.	994 .,
General Sir M. A. S. Biddulph K.C.B. Major Concern and How Libert General R. P. Radeliffe	994 994 ,,
right Control and For General Sir D M. Fraser, K.C.B.	
Major General and Hon. Lieut, General G. V. Johnson	
Rank and Name.	Pay.
_	£ 990 a year. 990 ",
Lieut General and Hon. General H. W. Montagu, c.B. General J. F. M Browne, c.B. Major General and Hon. Lieut General Sir. W. F. D. Jervois, G.C.M.O., c.B.	990 990 11 11 11

GOINTANGOV 7 7 THOOME TAMOTHAM

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Year ended 5).	ಇ	25,000,000 200,000 1,428,571	1,677,603	62,069,190	90,375,365 6 ear ended 20,011 10	£30,335,376 17
c. 4	S. d. 55 4 10 2 10 10	6 ::	20 10 mg/l	0000000	led	+8
in t ict.		10 S	70171 00	10023001	enc	
U R.E. .nd Ireland 38 and 39 V	URE. IND SERVIC. Plarge. 16,238,028 5 6,350,400 12 659,826 2	1,751,744 19 9 Charge.	2407,953 17 3 334,538 10 10 83,671 11 3 517,942 17 6 333,496 11 10	14,302,000 0 0 17,780,514 15 2 2,615,595 2 9 6,513,000 0 0 2,595,000 11 10	the Year	ŧ
NATIONAL INCOME AND EXPENDITURE. the Public Income and Expenditure of the United Kingdom of Great Britain and Ireland in the Yes 31, 1893, prepared in compliance with Section 4 of the Sinking Fund Act, 1875 (38 and 39 Vict. c. 45)	EXPENDITURE. CONSOLIDATED FUND SERVICES. Inside the Permanent or Fixed Annual Charge. Enterest and Management	New Sinking Fund	Civil List £407,953 Annuities and Pensions 334,538 Salaries and Allowances 83,671 Courts of Justice 517,942 Miscellancous Charges 333,496 SUPPLY SERVICES	Ordnance Factories 300 Ordnance Factories 300 Ordnance Factories 14,302,000 Oivil Services 17,780,514 15 Customs and Inland Revenue Departments. 2,615,595 2 Post Office 6,513,000 Ordegraph Service 2,595,000 Ordegraph Service 721,080 11	Total Expenditure Excess of Income over Expenditure in the Year ended March 31, 1893	
OME AND te United Kingdom ction 4 of the Sinki	COJ NATIONAL, DE Inside the Permanen Funded Debt.— Interest and Manag Terminable Annuitic Savings Banks Ded Interest on Unfinded	New Sinking FundOutside the Piernanent or Fixed Annu Principal and Interest on Suez Canal E. Naval. Defende Fund AnnutxOTHER CONSOLIDATED FUND SERVICES.	Civil List Annuities and Pensions Salaries and Allowances Courts of Justice Miscellancous Charges SUPPLY SERVICES	Ukdaance Factories Navy Civil Services Customs and Inland Re Post Office Telegraph Service Packet Service	Total Excess of Income ov March 31, 1893	
N Pof Sp th	HE H	NA OHA	Ar A	Paring Pa	EX	
I bure	-;00 000c	009		7	1,	-
A.L. andit	.:00 000	0 0 4		13		12
ATIONA ne and Expe d in compli	£ 19,715,000 25,360,000 13,805,000 2,450,000 13,470,000 10,400,000	2,480,000 430,000 220,396		2,064,980 12		590,395,376
NATIONAL INCOME AND EXPENDITURE. An Account of the Public Income and Expenditure of the United Kingdom of Great Britain and Ireland in the Year ended March 31, 1893, prepared in compliance with Section 4 of the Sinking Fund Act, 1875 (38 and 39 Vict. c. 45).	Customs 19,715,000 Excise 25,360,000 Stamps (excluding Fee, &c., 3805,000 Landrax and House Duty 2,450,000 Property and Income Tax 13,470,000 Post Office 10,400,000	Telegraph Sorvice Crown Lands (Net) Interest on Advances Allowance out of the Profits of the Profits of		Unice and Trustees Savings Banks 56,182 19 8 Fee, &c., Stamps 832,567 11 3 Other Miscella- neous Receipts 717,001 15 10	F.	Total Income£90,395,376 17

IMPORT DUTIES IN THE UNITED KINGDOM.

TABLE showing the several Articles subject to Import Duties in the United Kingdom, and the Rate of Duty levied upon each Article, according to the Tariff in operation during the year 1892-93.

ARTICLES.			Rate	
Cocoa Husks and Shells Cocoa or Chocolate, ground, prepared, or in any way manufactured	per lb. per cwt.	0	$\frac{0}{2}$	d. 1 0
Do. in the manufacture of which Spirit has been used	per lb. addit'nal per lb.	0	0	2 0 <u>1</u>
Coffee	per cwt. per lb.	-	14 0	$_2^0$
CHICORY:— Raw or kiln-dried	per cwt. per lb.	0	13 0 0	3 2 2
FRUIT—Dried:— Currants Figs and Fig Cake, Plums, Prunes, and Raisins	per cwt.	0	2 7	0
Tobacco—Manufactured:—	per lb.	0	0	4
Cigars Cavendish or Negro-head Cavendish or Negro-head Manufactured in Bond Other Manufactured Tobacco Snuff containing more than 13lbs. of moisture in every	21 21 21 21	0 0 0 0	5 4 4 4	0
100lbs. weight thereof	"	0	3	9
Tobacco—Unmanufactured:— Containing 10lbs. or more of moisture in every 100lbs. weight thereof	,,	0	3	2
Containing less than 10lbs. of moisture in every 100lbs. weight thereof	"	0	3	6
Wine: Not exceeding 30° of Proof Spirit Exceeding 30° but not exceeding 42° of Proof Spirit And for every degree or part of a degree beyond the	per gallon.	0	$\frac{1}{2}$	0 6
highest above charged, an additional duty The word "degree" does not include fractions of the next higher degree. Wine includes Lees of Wine.	,,	0	0	3

IMPORT DUTIES IN THE UNITED KINGDOM.

ARTICLES.			Rate	
Wine—Sparkling Wine imported in Bottles:—		£	s.	d.
If proved not to exceed 15s. a gallon market value (to 11th April, 1892)		0	1	U
1892)	"	0	$\frac{2}{2}$	6 0
Duties in respect of alcoholic strength. Beer of the descriptions called Mum, Spruce, or Black Beer, and Berlin White Beer, and other preparations, whether fermented or not fermented, of a character similar to Mum, Spruce, or Black Beer, where the worts thereof were, before fermentation, of a specific gravity—				
Not exceeding 1,215°	per every) 36 galls.	1	6	0
Exceeding 1,215° Beer of any other description where the worts thereof were, before fermentation, of a special gravity of	,,	1	10	6
1.055°	,,	0	6	6
For every gallon, computed at hydrometer proof, of Spirits of any description (except Perfumed Spirits), including Naphtha or Methylic Alcohol, purified so as to be potable, and mixtures and preparations containing Spirits	per proof gallon.	ar ti 0	10 ad 6 addi ons 16 ad 9	id. i.l. 6
Liqueurs, Cordials, or other preparations containing Spirits, in Bottle, entered in such a manner as to indicate that the strength is not to be tested And so on in proportion for any less quantity. Chloroform Chloral Hydrate Collodion Confectionery, in the manufacture of which Spirit has	per lb.	ti 0 an a	ona 14 d 8 ddi ona 3	1. 0 d.
been used (the Duty being in addition to any other existing Duty to which such Confectionery is at present liable) Ether, Acetic Ether, Butyric Ether, Sulphuric. Ethyl, Iodide of And so in proportion for any less quantity.	per lb.	0 0 1		10 ⁻ 8 2
Soap, Transparent, in the manufacture of which Spirit has been used	per lb.	0	0	3
Cards, Playing	per doz. }	0	3	9

INCOME TAX RATES FROM ITS FIRST IMPOSITION IN 1842 TO THE PRESENT TIME.

From and to April 5th.	Income free under.	to	On £100 and upw'ds.	Chancellor of the Exchequer.	Premier.		
	£	Rate in	n the £				
842 to 1846	150	_	7d.	Henry Goulburn.	Sir Robert Peel.		
846 , 1852	Do.		7d.	Sir Charles Wood.	Lord John Russell.		
852 ,, 1853	Do.		7d.	Benjamin Disraeli.	Earl of Derby.		
853 ,, 1854	100	5d.	7d.	William E. Gladstone.			
854 ,, 1855	Do.	10d.	1s. 2d.	Do.	Do.		
855 ,, 1857	Do.	11 3 d.	1s. 4d.	Sir G. Cornewall Lewis			
857 ,, 1858	Do.	5d.	7d.	Do.	Do.		
	Do.	5d.	5d.	Do.	Do.		
858 ,, 1859	Do.	6 1 d.	9d.	Benjamin Disraeli.	Earl of Derby.		
859 ,, 1860	Do.	7d.	10d.	William E. Gladstone.	Viscount Palmerston.		
1860 ,, 1861	*100	6d.	9d.	Do.	Do.		
1861 ,, 1863			d.	Do.	Do. Do.		
863 ,, 1864	Do.		d.	Do.	Do. Do.		
864 ,, 1865	Do.		d. d.		Do. Do.		
.865 ,, 1866	Do.			Do.			
.866 ,, 1867	Do.		d.	Do.	Earl Russell.		
867 ,, 1868	Do.		d.	Benjamin Disraeli.	Earl of Derby.		
1868 ,, 1869	Do.		d.	George Ward Hunt.	Benjamin Disraeli.		
869 ,, 1870	Do.		d.	Robert Lowe.	William E. Gladston		
1870 ,, 1871	Do.		d.	Do.	Do.		
1871 ,, 1872	Do.		d.	Do.	Do.		
1872 ,, 1873	Do.		d.	Do.	Do.		
1873 ,, 1874	Do.		d.	Do.	Do.		
1874 ,, 1876	Do.		d.	Sir Stafford Northcote.			
1876 ,, 1878	†150		d.	Do.	Earl of Beaconsfield.		
1878 ,, 1880	Do.		d.	Do.	Do.		
1880 ,, 1881	Do.	6	d.	William E. Gladstone.			
1881 ,, 1882	Do.	5	d.	Do	Do.		
.882 ,, 1883	Do.	6	d.	Do.	Do.		
1883 , 1884	Do.	5d.		Hugh C. E. Childers.	Do.		
1884 ,, 1885	Do.	6d.		Do.	Do		
1885 ,, 1886	Do.	8d.		Sir M. Hicks-Beach.	Marquis of Salisbury		
886 " 1887	(Do.	8d.		Sir William Harcourt.	William E. Gladston		
1886 ,, 1887	Do.	8	d.	Ld.Randlph Churchill.	Marquis of Salisbury		
1887 ,, 1888	Do.	7	d.	G. J. Goschen.	Do.		
1888 , 1889	Do.		d.	Do.	Do.		
1889 ,, 1890	Do.		d.	Do.	Do.		
1890 , 1891	Do.		d.	Do.	Do.		
1891 ,, 1892	Do.		d.	Do.	Do.		
1892 , 1893	Do.		d.	Sir W. Harcourt.	William E. Gladstone		
1893 ,, 1894	Do.		d.	Do.	Do.		

^{*} Differential rate upon scale of incomes abolished. Incomes under £100 are exempt; and incomes of £100 and under £199 per annum have an abatement from the assessment of £60:—thus, £100 pays on £40; £160 npon £100; £189 upon £139; but £200 pays on £200.

[†] Under £150 exempt; if under £400 the tax is not chargeable upon the first £120.

Kingdom, in each Month in each Year from 1877 to 1888, and of the New Two-and-Three-Quarter Per Cent AVERAGE PRICE PER £100 of the Three Per Cent Consolidated Stock of the Public Funds of the United Consolidated Stock Monthly from March, 1888, to December, 1892.

1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1888.	1888. 1889. 1890. 1891. 1892.	1890.	1891.	1892.
		!														
e3 ;	# "	e# #	£ 073	# g	£	£	£ 101	4	3 66	£ 00	£ 1024	भ :	£	£ 26	£96	£
(4	301's	₹oc		3	0116		9101	*	n)	7	9			3		
$95\frac{1}{13}$	95_{18}	₹96	981	$98\frac{15}{16}$	99g	102⅓	1013	994	1001	1003	1023	:	66	973	97 ₈	95‡
$96_{1}^{7}_{6}$	954	1 96	973	993	1003	$102\frac{1}{8}$	$101 \frac{9}{10}$	973	100_{15}	1013	$101\frac{4}{5}$	$100\frac{5}{8}$	974	974	97,8	$95\frac{3}{4}$
953	9413	981	985	10013	1015	$102\frac{3}{8}$	$102\frac{1}{3}$	1 96	100;	$102\frac{2}{5}$	101	1001	983	98	96_{1} 's	96_{16}^{5}
944	96.3	983	£66	102 18	102	101 g	1013	$99\frac{1}{4}$	$101\frac{2}{5}$	$103\frac{1}{8}$	$101\frac{1}{5}$	166	66	⁴ 86	$95\frac{1}{4}$	971
943	$95\frac{7}{8}$	974	983	1003	1001	1003	$100_{\mathrm{T}^{'}_{8}}$	$99\frac{3}{4}$	100_{15}^{9}	1013	$100\frac{1}{2}$	99_{16}	186	971	95_{1}^{1}	₹96
943	9514	$97\frac{7}{8}$	983	1011	9913	9913	1003	80g	$101\frac{3}{10}$	1013	$100\frac{1}{2}$	99,	983	961	$95\frac{3}{4}$	8 1 96
$95\frac{1}{8}$	9413	973	973	1004	993	$99\frac{7}{8}$	1003	100	101_1	1013	1001	993	98,10	₹96	96	971
$95\frac{1}{2}$	9413	973	$97\frac{3}{4}$	991	266	$100\frac{5}{8}$	1014	$100\frac{1}{8}$	100_{170}	$101\frac{3}{1^{\circ}}$	$100\frac{2}{5}$	86	97	958	9418	97
$95\frac{3}{4}$	944	86	98_{16}^{9}	9815	$101_{T^3_6}$	101	$100\frac{9}{10}$	1003	$100^{\frac{4}{5}}$	1025	$100^{\frac{2}{b}}$	974	97	943	944	97
9613	9511	186	99 <u>F</u> §	1004	$102_{\rm T}{}^{\rm l}_{\rm g}$	101111	$100\frac{1}{2}$	$100\frac{2}{3}$	1013	1031	101	97	97	943	95	974
$95\frac{3}{16}$	943	973	‡86	99 ₁₆	$100\frac{1}{18}$	1003	\$66	100	1001	$101\frac{7}{10}$	993	96,7	978	953	954	973
953	95,3	973	983	100	1001	101 3	101	£66	100\$	101\$	101	:	86	963	953	9611
	_	_		_												

AVERAGE MINIMUM RATE PER CENT of DISCOUNT CHARGED by the BANK of ENGLAND, in EACH MONTH

in EACH YEAR from 1877 to 1892.

Months.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.	Average for the year.
1892.	35 180	ന	က	₹67 67	c1	61	61	જ	01	25.5	ස	ಣ	23 263
1891.	4	က	ಣ		45.	900 9400	23	25.	21 01	အ	-j 1	3.0 3800	33
1890.	9	54	43	30 5#0	ಬ	36	4	44 3120	45	Ď.	54	5_{10}	44 463
1889.	470	က	က	ಲ್ಲ ಜನ	61 481	25.	-57 -67	ಣ	4rb	22	5	2	-fc7
1888.	ಜ್ಞ	CJ 5/10	28	63	3.J ≅e	22	25 152	ÇI ÇÎ	85 8.8	5	2	23	-sc
1887.	5	4	31	CJ 0800	31	61	c)	25	4	4	4	4 ,	eo E _{ss}
1886.	ಜಿಕ	÷0	ପା	ଚୀ	<u>c1</u>	23.	25.	23.83	185 231	3.5	4	45.	್ಷ
1885.	5	22	99 83 83 83	55 150 150 150 150 150 150 150 150 150 1	2J 50 80 80	C3	ପା	31	CI	C1	230	31. 31.5 11.5	භ
1884.	က	311	9 3 1	23	42		61	5	63	C1 09	4.0	23	22.2
1883.	43	93 +	ಣ	ಣ	50	7	4	4	80 23	အ	ಣ	ಣ	3 I &
1882.	5,18	513	4	ಣ	က	ന	69	32	4,7	ت	70	70	448
1881.	3 16	34	က	အ	25	25.	52	C1 5/6	4	3 L	5	20	166
1880.	က	ග	အ	က	ಣ	61 84	CJ CG	2 <u>1</u>	di di	ე1 ქვ1	23	$\frac{5}{8}$	22
1879.	45	အ	C1 20x	5. 18.	21	67	લ	Ç1	01	c1	C1	භ	22 535
1878.	31	61	G1 -48	ಣ	ಣ	-5-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-		£ 8	ro	53	7.C 8000	ū	33
1877.	61	63	C3	63	_ 52 53	က	21	25 48	က	45.	148	4	C2 148
MONTHS.	Jan	Feb	March	April	May	June	July	August	Sept	Oetober	Nov	Dec	Average for the year

DEALINGS WITH LAND.

SCALE OF LAW COSTS ON THE SALE, PURCHASE, OR MORTGAGE OF REAL PROPERTY, HOUSES, OR LAND.

		For t t £1,		2	or t nd a l £1,		sul £1,		ich uent ip to	subs £1 u	r ead seq'e 1,000 p to 0,000	ent
Vendor's solicitor for negotiating a sale of property by private contract	e	er £1	00. d. 0	Po £	er £	100. d. 0	£	er £1	100. d.	Per £	£10 8.	
Do., do., for conducting a sale of property by public auction, including the conditions of sale—												
When the property is sold	1	0	0	0	10	0	0	5	0	0	2	6
When the property is not sold, then on the reserve price †	0	10	0	0	5	0	o	2	6	0	1	3
Do., do., for deducing title to freehold, copyhold, or leasehold property, and perusing and completing conveyance (including preparation of contract, or conditions of sale, if any)		10	0	1	0	0	0	10	0	0	5	0
Purchaser's solicitor for negotiating a pur- chase of property by private contract	1	0	0	1	0	0	0	10	0	0	5	0
Do., do., for investigating title to free- hold, copyhold, or leasehold property, and preparing and completing con- veyance (including perusal and com- pletion of contract, if any)	1	10	0	1	0	0	0	10	0	0	5	0
Mortgagor's solicitor for deducing title to freehold,copyhold,or leasehold property, perusing mortgage, and completing	1	10	0	1	0	0	0	10	0	0	5	0
Mortgagee's solicitor for negotiating loan.	1	0	0	1	0	0	0	5	0	0	2	6
Do., do., for investigating title to freehold, copyhold, or leasehold property; and preparing and completing mortgage		10	0	1	0	0	0	10	0	0	5	0

Vendor's or mortgagor's solicitor for procuring execution and acknowledgment of deed by a married woman, £2. 10s, extra.

Where the prescribed remuneration would amount to less than £5 the prescribed remuneration is £5, except on transactions under £100, in which case the remuneration of the solicitor for the vendor, purchaser, mortgagor, or mortgagee, is £3.

^{*} Every transaction exceeding £100,000 to be charged for as if it were for £100,000. + A minimum charge of £5 to be made whether a sale is effected or not.

DEALINGS WITH LAND.

Scale of Law Costs as to Leases, or Agreements for Leases, at Rack Rent (other than a Mining Lease, or a Lease for Building Purposes, or Agreement for the same).

LESSOR'S SOLICITOR FOR PREPARING, SETTLING, AND COMPLETING
LEASE AND COUNTERPART.

Where the rent does not exceed £100, £7. 10s. per cent on the rental, but not less in any case than £5.

Where the rent exceeds £100, and does not exceed £500, £7. 10s. in respect of the first £100 of rent, and £2. 10s. in respect of each subsequent £100 of rent.

Where the rent exceeds £500, £7. 10s. in respect of the first £100 of rent, £2. 10s. in respect of each £100 of rent up to £500, and £1 in respect of every subsequent £100.

Lessee's solicitor for perusing draft and completing—one-half of the amount payable to the lessor's solicitor.

Scale of Law Costs as to Conveyances in Fee, or for any other Freehold Estate reserving rent, or Building Leases reserving rent, or other Long Leases not at Rack Rent (except Mining Leases), or Agreements for the same respectively.

VENDOR'S OR LESSOR'S SOLICITOR FOR PREPARING, SETTLING, AND COM-PLETING CONVEYANCE AND DUPLICATE, OR LEASE AND COUNTERPART.

Amount of Annual Rent.	Amount of Remuneration.
Where it does not exceed £5 Where it exceeds £5, and does not exceed £50 Where it exceeds £50, but does not exceed £150 Where it exceeds £150	£5. The same payment as on a rent of £5, and also 20 per cent on the excess beyond £5. The same payment as on a rent of £50, and 10 per cent on the excess beyond £50. The same payment as on a rent of £150, and 5 per cent on the excess beyond £150.

Where a varying rent is payable the amount of annual rent is to mean the largest amount of annual rent.

Purchaser's or lessee's solicitor for perusing draft and completing—one-half of the amount payable to the vendor's or lessor's solicitor.

THE DEATH DUTIES.

PROBATE AND ACCOUNT DUTY.

This duty is now regulated by 44 Vict., cap. 12 (1881), and 52 Vict., cap. 7, and is payable on personal estate on the Affidavits for Probate and Letters of Administration; and also on the accounts which have to be rendered in special cases of benefits accruing to anyone by reason of the death of another person.

The rates of duty are as follow:-

Under £100 no duty.

Where value exceeds £100 and not £500, £1 for each £50, or fraction of £50.

Where the gross value of an estate does not exceed £300, a fixed duty of 30s. only is payable to cover all duties.

In the case of persons dying domiciled in the United Kingdom, debts and funeral expenses are deducted before calculating the duty except where the value of the whole personal estate does not exceed £300.

ESTATE DUTY.

This duty was created and is regulated by 52 Vict., cap. 7, and is payable in respect of personal and real estate.

With regard to personal estate, the duty is payable where on application for probate or administration granted on or after 1st June, 1889, the value of the estate and effects in respect whereof probate duty is charged exceeds £10,000, or where the value of personal or movable property included in an account delivered on or after 1st June, 1889, exceeds £10,000.

With regard to real estate, the duty is payable where the value of any succession upon the death of any person dying on or after 1st June, 1889, exceeds £10,000, and where the value of any succession to real property under the will or intestacy of any person so dying does not exceed £10,000, but such value together with the value of any other benefit taken by the successor under such will or intestacy exceeds £10,000.

The rate of duty payable is £1 for each £100 or a fraction of £100 of value of the estate and effects, or of the personal or movable property, or of the succession, as the case may be.

THE DEATH DUTIES.

LEGACY DUTY.

This duty is regulated by 55 Geo. iii., cap. 184, and 51 Vict., cap. 8, and is payable in respect of personal estate. The rates of duty are as follows:—

DESCRIPTION OF LEGATEE.	If payable out of Real Estate, and the deceased died before 1st July, 1888, or out of Personal Estate whenever deceased died.	If payable out of Real Estate, and the deceased died on or after 1st July, 1988.
Children of the deceased and their descendants, or the father or mother or any lineal ancestor of the deceased, or the husbands or wives of any such persons.	£1 per cent.	£1. 10s. per cent.
Brothers and sisters of the deceased and their descendants, or the husbands or wives of any such persons	£3 ,,	£4. 10s. "
Brothers and sisters of the father or mother of the deceased and their descendants, or the husbands or wives of any such persons	£5 ,,	£6. 10s. ,,
Brothers and sisters of a grandfather or grandmother of the deceased and their descendants, or the husbands or wives of any such persons	£6 ,,	£7. 10s. "
Any person in any other degree of collateral consanguinity, or strangers in blood to the deceased	£10 ,,	£11. 10s. "

SUCCESSION DUTY.

This duty is regulated by 16 and 17 Vict., cap. 51, and 51 Vict., cap. 8, and is payable in respect of real estate, including leaseholds.

The rates of duty are as follows:—

DESCRIPTION OF SUCCESSOR.	Where the deceased died before the 1st July, 1888.	Where the deceased died on or after the 1st July, 1888.				
Lineal issue or lineal ancestor of the predecessor, or the husband or wife of any such person	£1 per cent.	£1. 10s. per cent.				
Brothers and sisters of the predecessor and their descendants, or the husbands or wives of any such persons	£3 ,,	£4. 10s. ,,				
Brothers and sisters of the father or mother of the predecessor and their descendants, or the husbands or wives of any such persons	£5 ,,	£6. 10s. ,,				
Brothers and sisters of a grandfather or grandmother of the predecessor and their descendants, or the husbands	£6 ,,	£7. 10s. ,,				
or wives of any such persons / Persons of more remote consanguinity, or strangers in blood	£10 ,,	£11. 10s. ,,				

THE DEATH DUTIES.

The husband or wife of deceased is exempt from legacy or succession duty.

Legacy duty is payable on the capital value.

Succession duty is paid on the value of an annuity equal to the net income of the property, which annuity would continue during the life of the successor.

Where the whole personal estate does not exceed £300 no legacy duty is payable. All pecuniary legacies, residues, or share of residue, although not of the amount

of £20, are subject to duty.

In case of persons dying leaving issue, the probate duty covers all legacy duty which would formerly have been paid by such issue.

Where the principal value of the whole succession or successions does not exceed £100 no succession duty is payable.

Persons domiciled in the United Kingdom pay legacy duty on all movable property wherever situate.

Persons domiciled abroad are altogether exempt from legacy duty on movable property.

By the Customs and Inland Revenue Act, 1885 (48 and 49 Vict., c. 51), a yearly duty of 5 per cent is to be levied upon the net annual value, income or profits, of the real and personal property of any body, corporate or incorporate. But there are a number of exemptions, the most important of which are:—Property belonging to the counties and certain other public bodies, charities, friendly societies, savings banks, and trading concerns.

THE INTESTATES' ESTATES ACT, 1890,

Provides that when a man dies after the first of September, 1890, leaving a widow but no issue, if the net value of his real and personal estate does not exceed £500 all shall belong to the widow. If the estate exceeds £500 the widow is to have a charge on it for that amount, with interest at 4 per cent until payment. This Act does not apply to Scotland.

RULES BY WHICH THE PERSONAL ESTATES OF PERSONS DYING INTESTATE ARE DISTRIBUTED.

	His representatives take in the proportion following:—
Wife and child, or children	One-third to wife, rest to child or children; and if children are dead, then to the representa- tives (that is, their lineal descendants), except such child or children, not heirs-at-law, who had estate by settlement of intestate, or were advanced by him in his lifetime, equal to other shares.
¶ Wife only, no relations ¶ Wife, no near relations	Half to wife, rest to next-of-kin in equal degree
No wife or child	
one or more wives	
Children by two wives If no child, children, or representatives of them Child, and grandchild by deceased child	Equally to all. All to next-of-kin in equal degree to intestate. Half to child, half to grandchild, who takes by representation.
Husband	Whole to him.
Father, and brother or sister	Whole to father.
Mother, and brother or sister	Whole to them equally.
Wife, mother, brothers, sisters, and nieces	Half to wife, residue to mother, brothers, sis-
(daughters of deceased brother or sister)	ters, and nieces.
Wife, and father	Half to wife, and half to father. Half towife, half to brothers or sisters, and mother
sister, nephew, or niece	The whole to mother.
Wife, and mother Brother or sister of whole blood, and brother	Half to wife, half to mother.
or sister of half blood	Equally to both.
Posthumous brother or sister, and mother	Equally to both.
Posthumous brother or sister, and brother or sister born in lifetime of father	Equally to both.
Father's father, and mother's mother	Equally to both.
Uncle or aunt's children, and brother's or	
siater's grandchildren	Equally to all.
Grandmother, uncle, or aunt	All to grandmother.
Two aunts, nephew, and niece	Equally to all.
Uncle, and deceased uncle's child	All to uncle.
Uncle by mother's side, and deceased uncle or	All to uncle.
aunt's child	
Nephew by deceased brother, and nephews and	
nieces by deceased sister	Each in equal shares per capita, and not per stirpes.
Brother and grandfather	Whole to brother.
daughter	All to brother or sister's daughter. All to brother,
Brother and two aunts	Half to brother, half to wife.
Wife, mother, and children of a deceased brother (or aister)	Half to wife, a fourth to mother, and a fourth per stirpes to deceased brother's or sister's children.
Wife, brother, or sister, and children of a deceased brother or sister	(Half to wife, one-fourth to brother or sister, one-fourth to deceased brother's or sister's bildren per stirres.
Brother or sister, and children of a deceased brother or sister	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

^{*} That is, taking individually, and not by representation. Thus, if A die, leaving three brothers or sisters, they each take an equal part of his effects in his or her own right. But if either of them die, leaving children, his children would take his share per stirpes, that is through him, and not in their own rights.

By the Act 19 & 20 Vict., cap. 94, all special local customs relating to the estates of intestates are abolished so far as they affect personal property.

See Intestates Estates Act, 1890, on previous page.

RULES OF DIVISION, ACCORDING TO THE LAW OF SCOTLAND, OF THE MOVABLE ESTATE OF A PERSON WHO HAS DIED INTESTATE.

If a person die, leaving	His movable estate is divided in the following proportions:—
Wife	Half to wife, other half to deceased's next- of-kin.
Wife and child, or children	One-third to wife, remaining two-thirds to child, or among children equally.
Wife and children, and issue of predeceasing children	One-third to wife, one-third to children equally, and the remaining third between the children and the issue of the predeceasing children— the children taking per capita, the latter per stirpes.*
Wife and grandchildren	Half to wife, and half to grandchildren equally among them.
Wife, and his children by former marriages	One-third to wife, two-thirds to children equally.
Wife, and her children by last and prior marriages	One-third to wife, remaining two-thirds to deceased's children.
Children	Whole to children.
Children, and issue of predeceasing children	Half to children, remaining half between children per capita, and issue per stirpes.
Grandchildren	Equally to all.
Children by two or more marriages	Equally to all.
Father	Whole to father.
Mother	One-third to mother, other two-thirds to next-
Father and mother	Whole to father.
Father and mother, and brothers and sisters	Half to father, half to brothers and sisters equally.
Mother, and brothers and sisters	One-third to mother, remaining two-thirds to brothers and sisters.
Father, mother, brothers, or sisters, and issue of deceased brothers or sisters	Half to father, half to brothers and sisters per
Mother, brothers, or sisters, and issue of deceased brothers or sisters	
Father and mother, and their grandchildren	Half to father, other half to grandchildren equally.
Mother, and her grandchildren	One-third to mother, other two-thirds to grandchildren equally.
Father, mother, children, and grandchildren of deceased brothers or sisters	Half to father, other half between children
Mother, children, and grandchildren of deceased brothers or sisters	One-third to mother, other two-thirds among children per capita, and grandchildren per stirpes.
Brothers or sisters	Equally among them.
Brothers or sisters, and nephews or nieces	Brothers or sisters per capita, nephews or nieces per stirpes.
Nephews and nieces	Equally.
Grandnephews or nieces	Equally.

RULES OF DIVISION, ACCORDING TO THE LAW OF SCOTLAND, OF THE MOVABLE ESTATE OF A PERSON WHO HAS DIED INTESTATE.—Con.

If a person die, leaving	His movable estate is divided in the following proportions:—
Brothers or sisters of full blood, and brothers or sisters of half-blood	Whole to brothers and sisters of full blood.
Brothers or sisters consanguinean (that is, by same father but not same mother), and brothers or sisters uterine (that is, by same mother but not by same father)	Whole to brothers and sisters consanguinean
Brothers or sisters consanguinean, and uncles or aunts	Whole to brothers and sisters.
Brothers and sisters uterine, and uncles or aunts	Half to brothers and sisters, other half to uncles and sunts.
Father, mother, and uncles and aunts	Whole to father.
Father, and cousins of full blood	Whole to father.
Mother, and uncles or aunts	One-third to mother, two thirds to uncles and aunts.
Mother, and cousins of full blood	One-third to mother, two-thirds to cousins equally.
Grandfather, and uncles and aunts	Whole to uncles and aunts.
Grandfather, grandmother, and mother	One-third to mother, two-thirds to grandfather.
Where a wife dies, survived by	Her movable estate is divided in the following proportions:—
Husband	Half to husband, other half to next-of-kin.
Husband and children	One-third to husband, rest to children.
Children only	Whole to children.
Children, and issue of deceased children	Haif to children, other half among children per capita, and issue per stirpes.
Children by two or more marriages	Equally to all.
Illegit-mate children do not succeed to thei will in their favour. When an illegitimate child children, his estate falls to the Crown.	ir father and mother, when the latter leave no dies without a will, and leaves neither wife nor

^{*} Per capita. i.e., by the head; per stirpes (by descent), i.e., through their parent and not in their own right. Where property divides per capita, it is divided into as many shares as there are children; where per stirpes, the share which would have fallen to the predeceasing parent if aller is divided equally among his children.

EXPECTATION OF LIFE.

EXPECTATION OF LIFE TABLES were constructed by the late Dr. Farr, of the General Register Office, and were calculated on the death-rates of 1838-54; but since that time very important changes have occurred in the death-rates at different ages; and consequently new tables have been constructed by Dr. W. Ogle, who succeeded Dr. Farr, on the basis of the death-rates of 1871-80. The following table gives the results both of the older and the later calculations; the first two columns in the male and female parts, respectively giving the survivorsat each year of life out of a million born of the corresponding sex, by the older and the newer calculation; and the two other columns giving similarly the expectation of life at each year.

		MALE	s.		1	FEMAL	ES.		
AGE.	AT THE EN	000 Born, R SURVIVING DD OF EACH OF LIFE.	MEAN AFTER-LIFETIME (EXPECTATION OF LIFE).		OF 1,000,000 BORN, THE NUMBER SURVIVING AT THE END OF EACH YEAR OF LIFE.		AFTER-L (EXPE	EAN JIFETIME CTATION JIFE).	AGE.
	1838-54.	1871-80.	1889-54.	1871-80.	1838-54.	1871-80.	1838-54.	1871-80.	
Col'mn	1	2	3	4	5	6	7	8	Col'mr
0	1,000,000	1,000,000	39.91	41.35	1,000,000	1,000,000	41.85	44.62	0
l '	836,405	841,417	46.65	48.05	865,288	871,266	47.31	50.14	1
2	782,626	790,201	48.83	50.14	811,711	820,480	49.40	52.22	2
3	754,849	763,737	49.61	50.86	782,990	793,359	50.20	52 99	3
4	786,845	746,587	49.81	51.01	764,060	775,427	50.43	53-20	4
5	723,716	734,068	49.71	50 87	750,550	762,622	50.33	53.08	5
6	713,881	726,815	49.39	50.88	740,584	755,713	50.00	52.56	6
7	706,156	721,103	48.92	49.77	732,771	750,276	49.58	51.94	7
8	699,688	716,309	48.37	49.10	726,116	745,631	48.98	51.26	8
9	694,346	712,387	47 74		720,587	741,727	48.35	50.53	9
10	689,857	708,990	47.05	47:60	715,769	738,382	47.67	49.76	10
11	685,982	706,146	46.31	46.79	711,581	735,405	46.95	48 96	11
12	682,512	703,595	45.54	45.96	707,770	732,697	46.20	48.13	12
13	679,256	701,200	44.76	45.11	704,155	730,122	45.44	47 80	13
14	676,057	698,840	43.97	44.26	700,581	727,571	44.66	46.47	14
15	672,776	696,419	43.18	43.41	696,917	724,956	43.90	45.63	15
16	669,296	693,695	42.40	42.58	693,050	722,084	43.14	44.81	16
17	665,529	690,746	41.64	41.76	688,894	718,993	42.40	44.00	17
18	661,402	687,507	40 90	40.96	684,378	715,622	41.67	43.21	18
19	656,868	683,941	40.17	40.17	679,463	711,946	40.97	42 43	19
20	651,903	680,033	39.48	39.40	674,119	707,949	40-29	41.66	20
21	646,502	675,769	88.80	38 64	668,345	703,616	39.63	40.92	21
22	641 028	671,344	38.13	37.89	662,474	699,141	38 98	40.18	22
23	635,486	666,754	37.46	87.15	656,509	694,521	38.33	39.44	23
24	629,882	661,997	36.79	36.41	650,463	689,759	37.68	38.71	24
25	624,221	657,077	36.12	35.68	644,342	684,858	37.04	37-98	25
26	618,503	651,998	35.44	34.96	638,148	679,822	36.39	37.26	26
27	612,731	646,757	84.77	34.24	631,891	674,661	35.75	86.54	27
28	606,906	641,353	34.10	33.52	625,575	669,372	35.10	35.83	28
29	601,026	635,778	33.43	32.81	619,201	663,959	34.46	35.11	29
30	595,089	630,038	32.76	32.10	612,774	658,418	33.81	84.41	30
31	589,094	62+,124	32.09	31.40	606,296	652,747	33.17	38.70	31
32	583,036	618,056	31.42	30.71	599,769	646,957	32.53	33.00	32
33	576,912	611.827	80 74	30.01	593,196	641,045	31.88	32.30	33
34	570,716	605,430	30.07	29.33	586,575	635,003	31.23	31.60	34
35	564,441	598,860	29.40	28.64	579,908	628,842	30.59	30-90	35
36	558,083	592,107	28.73	27.96	573,192	622,554	29.94	30 21	36
37	551,634	585,167	28.06	27.29	566,431	616,144	29.29	29.52	37
38	545,084	578,019	27.39	26.62	559,619	609,599	28.64	28.83	38
39	538,428	570,656	26.72	25.96	552,758	602,924	27.99	28.15	39
40	531,657	563,077	26.06	25.30	545,844	596,113	27.34	27:46	40
41	524,761	555,254	25.39	24.65	538,876	589,167	26.69	26.78	41
42	517,784	547,288	24.73	24.00	531,849	582,104	26.03	26.10	42
48	510,567	539,161	24.07	23.35	524,765	574,919	25.38	25.42	43
44	503,247	580,858	23.41	22.71	517,617	567,612	24.72	24.74	44
2.2	000,211	0170,0170	20 11	1 22 11		************	, 2		

EXPECTATION OF LIFE.

		MALE	s.		1.	FEMAI	ES.		1
AGE.	OF 1,000,00 THE NUMBER AT THE ENI YEAR OF	SURVIVING OF BACH	AFTER-I	CAN LIFETIME CTATION LIFE).	OF 1,000,0 THE NUMBER AT THE EN YEAR O	SURVIVING	AFTER-L (EXPEC	IFETIME TATION	AGE.
	1888-54.	1871-80.	1838–54.	1871-90.	1838-54.	1971-90,	1888-54.	1871-80.	
Col'mn	1	2	3	4	5	6	7	8	Col'mi
45	495,770	522,374	22.76	22.07	510,403	560,174	24:06	24.06	45
46	488,126	513,702	22.11	21.44	503,122	552,602	28.40	23 38	46
47	480,308	504,836	21.46	20.80	495,768	544,892	22.74	22.71	47
48 49	472,306 464,114	495,761 486,479	20·82 20·17	20 18 19·55	488,339 480,833	537,043 529,048	22·08 21·42	22·03 21·36	48 49
50	455,727	476.980	19.54	18.93	473,245	520,901	20.75	20.68	50
51	447,139	467,254	18.90	18.31	465,572	512,607	20.09	20.01	51
52	438,099	457,022	18.28	17.71	457,814	504,188	19.42	19.34	52
53 54	428,801 419,256	446,510 435,729	17.67 17.06	17·12 16·53	449,966 442,027	495.645 486,973	18.75 18.08	18.66 17.98	53 54
55	409,460	424,677	16.45	15.95	433,331	477,440	17:48	17:33	55
56	399,408	413,351	15.86	15.37	424.239	467,443	16.79	16.69	56
57	389,088	401,740	15.26	14.80	414,761	456,992	16.17	16 06	57
58 59	378,481 367,570	389,827 377,591	14.63 14.10	14·24 13·68	404,895 394,636	446,079 484,695	15·55 14·94	15·45 14·84	58 59
60	856,330	365,011	13:53	18:14	383,974	422,835	14.84	14.24	60
61	341,744	352,071	12.96	12.60	372,895	410 477	13.75	13 65	61
62	332 789	338,820	12.41	12.07	361,387	397,644	13.17	13.08	62
63 64	320,451 307,720	325,256 311,368	11.87 11.34	11.56 11.05	349,436 337,031	384,319 370,495	12.60 12.05	12·51 11·96	64
65	294.588	297,156	10:82	10.55	824,165	356,165	11.51	11.42	65
66	281,064	282,638	10 32	10.07	310,833	341,326	10.98	10.90	66
67	267,160	267,-29	9.83	9.60	297 048	325,988	10.47	10 39	67
68 69	252,901 238,328	252,763 237,487	9·36 8·90	9·14 8·70	282,819 268,177	310,170 293,899	9·97 9·48	9·89 9·41	68 69
70	223,490	222,056	8.45	8:27	258,161	277,225	9.02	8.95	70
71	208,453	206,539	8.03	7.85	237,822	260,207	8.57	8.50	71
72	193,297	190,971	7.62	7.45	222,230	242,934	8.13	8.07	72
78 74	178,114 163,003	175,449 160,074	7·22 6·85	7·07 6·70	206,464 190,620	225,497 208,003	7·71 7·31	7.65 7.25	73
75	148,076	144,960	6.49	6:34	174,800	190,566	6.93	6.87	75
76	183,453	130,227	6.15	6.00	159,126	173,316	6.26	6.51	76
77	119,251 105,592	115,986	5.82	5.68	143,722	156,392	6.21	6.16	77
78 79	105,592 92,587	102,359 89,449	5·51 5·21	5·87 5·07	128,711 114,229	139,927 124,065	5·88 5·56	5·82 5·50	78 79
80	80 843	77,354	4 93	4.79	100,394	108,935	5.26	5.20	80
81	68,946	66,153	4.66	4.51	87,323	94,662	4.98	4.90	81
82	58,471	55,842	4.41	4.26	75,119	81,805	4.71	4.63 4.87	82 83
83 84	48,970 40,471	46 489 88,132	4·17 3·95	4·01 9·58	63,862 53,615	68,966 57,723	4·45 4·21	4.12	84
85	82,979	30,785	3.73	8.56	44 419	47,631	3.98	3.88	85
86	26,476	24,436	8.53	3.36	36,284	38,710	3.76	3.66	F6
87	20,926	19,054	8.84	3.17	29,202	30,958 24,338	3·56 3·36	3·46 3·26	87 88
88 89	16 268 12,428	14,576 10,926	3.16	2-99 2-82	23,135 18,027	18,788	3.18	3.08	89
90	9,821	8,015	2.84	2.66	13,802	14,225	3.01	2-90	90
91	6,859	5,748	2.69	2.51	10,376	10,558	2.85	274	91
92	4.946	4,025	2.55	2.37	7,650	7,658 5,429	2.70	2·58 2·44	93
93 94	3,492 2,411	2,749 1,828	2·41 2·29	2.12	5,526 3,908	8,756	2.42	2.80	94
95	1,628	1,183	2:17	2.01	2,704	2,533	2.29	2.17	95
96	1,071	742	2.06	1.90	1,827	1,661	2.17	2.11	96
97	688	452	1.95	1.81	1,204 774	1,057	2.06 1.96	1.83	99
98 99	430 262	266 151	1.85 1.76	1.65	483	389	1.86	1.73	99
100	154	82	1.68	1.61	295	225	1.76	1.62	100

THE QUEEN AND ROYAL FAMILY.

THE QUEEN.—VICTORIA, of the United Kingdom of Great Britain and Ireland, &c., Queen, Defender of the Faith. Her Majesty was born at Kensington Palace, May 24, 1819; succeeded to the throne, June 20, 1837, on the death of her uncle, King William IV.; was crowned June 28, 1838; and married, February 10, 1840, to his Royal Highness Prince Albert. Her Majesty is the only child of his late Royal Highness Edward, Duke of Kent, son of King George III. The children of Her Majesty are:—

1. Her Royal Highness Victoria Adelaide Mary Louisa, PRINCESS ROYAL OF ENGLAND AND PRUSSIA, born November 21, 1840, and married to his Royal Highness Frederick Wilhelm, the Crown Prince of Germany, January 25, 1858, afterwards the Emperor of Germany, died June 15, 1888, and has issue, living,

two sons and four daughters.

2. His Royal Highness Albert Edward, PRINCE OF WALES, born November 9, 1841, married, March 10, 1863, Alexandra of Denmark (Princess of Wales), born December 1, 1844, and has issue, Prince Albert Victor, born January 8, 1864, died January 14, 1892; George Frederick Ernest Albert, born June 3, 1865; Louisa Victoria Alexandra Dagmar, born February 20, 1867, married, July 27, 1889, Alexander William George, Duke of Fife; Victoria Alexandra Olga Mary, born July 6, 1868; Maud Charlotte Mary Victoria, born November 26, 1869; and Alexander John Charles Albert, born April 6, 1871, died April 7, 1871.

3. Her Royal Highness Alice Maud Mary, born April 25, 1843; died December 14, 1878; married his Royal Highness Prince Frederick Louis of Hesse, July 1, 1862; had issue five daughters and two sons; the second son died by an accident, May,

1873; the youngest daughter died November 15, 1878.

4. His Royal Highness Alfred Ernest Albert, Duke of Edinburgh, born August 6, 1844; married the Grand Duchess Marie of Russia, January 23, 1874; and has had issue a son, born October 15, 1874, and four daughters, born October 29, 1875, November 25, 1876, September 1, 1878, and March, 1884.

5. Her Royal Highness Helena Augusta Victoria, born May 25, 1846; married to his Royal Highness Prince Frederick Christian Charles Augustus of Schleswig-Holstein Sonderburg-Augustenburg, July 5, 1866; and has issue living one son and two daughters.

6. Her Royal Highness Louise Caroline Alberta, born March 18, 1848; married to the Marquis of Lorne, eldest son of the Duke of Argyll, March 21, 1871.

7. His Royal Highness Arthur William Patrick Albert, Duke of Connaught, born May 1, 1850; married Princess Louise Margaret of Prussia, March 13, 1879; issue, a daughter, born January 15, 1882; a son, born January 13, 1883; and a daughter, born March 17, 1886.

8. His Royal Highness Leopold George Duncan Albert, Duke of Albany, born April 7, 1853; married, April 27, 1882, Princess Helen of Waldeck; died March 28, 1884; issue, a daughter, born February 26, 1883, and a son, born July 19, 1884.

9. Her Royal Highness Beatrice Mary Victoria Feodora, born April 14, 1857; married, July 23, 1885, to Prince Henry of Battenberg; issue, three sons and a daughter.

THE GLADSTONE MINISTRY, 1892.

Prime Minister, First Lord of the Rt. Hon. W. E. GLADSTONE.	
Lord ChancellorLord Herschell.	
Secretary for India and Lord President of the Council	
Chancellor of the ExchequerRt. Hon. Sir William Harcour	т.
Home Secretary	
Secretary for Foreign Affairs The Earl of Rosebery.	
Secretary for the Colonies The Marquis of Ripon.	
Secretary for War	MAN.
Secretary for Scotland Sir George Trevelyan.	
First Lord of the Admiralty EARL SPENCER.	
Chief Secretary for Ireland Rt. Hon. John Morley.	
Postmaster-General	
President of the Board of Trade Rt. Hon. A. J. Mundella.	
Chancellor of the Duchy of Lancaster Rt. Hon. James Bryce.	
President of the Local Government Rt. Hon. Henry H. Fowler.	
Vice-President of the CouncilRt. Hon. ARTHUR H. D. ACLANI	٥.
First Commissioner of WorksRt. Hon. G. Shaw-Lefevre.	
The above form the Cabinet.	
Lord Lieutenant of Ireland LORD HOUGHTON.	
Lord Chancellor of IrelandSamuel Walker, Q.C.	
· ·	
Junior Lords of the Treasury WILLIAM A. Mc.ARTHUR. R. K. CAUSTON. THOMAS E. ELLIS.	
Financial Secretary to the Treasury Rt. Hon. John T. Hibbert.	
Patronage Secretary to the Treasury Rt. Hon. E. MARJORIBANKS.	
Tationage Secretary to the Heastry It. Holl. E. MARGORIBANAS.	
Under Secretary to the Home Depart- ment	
Under Secretary for the Home Department	
Under Secretary for the Home Department	
Under Secretary for the Home Department	
Under Secretary for the Home Department	
Under Secretary for the Home Department	

THE GLADSTONE MINISTRY, 1892—Continued.

Attorney-GeneralSir Charles Russell, Q.C.
Solicitor-GeneralJ. C. Rigby, Q,C.
Lord AdvocateJ. B. Balfour, Q.C.
Solicitor-General for ScotlandA. ASHER, Q.C.
Attorney-General for Ireland The Macdermot, Q.C.
Solicitor-General for IrelandSERJEANT HEMPHILL.
Vice-Chamberlain of the Household The Hon. C. R. Spencer.
Comptroller of the HouseholdThe Hou. G. Leveson-Gower.
Secretary to the AdmiraltySir U. KAY-SHUTTLEWORTH.
Under Secretary for the War OfficeLORD SANDHURST.
Financial Secretary to the War Office WILLIAM WOODALL.
Lord ChamberlainLord Carrington.

PRIME MINISTERS SINCE 1834.

Sir Robert PeelDecember 15, 1834	Earl of DerbyJuly 8, 1866
Viscount Melbourne April 18, 1835	Mr. DisraeliMarch to December, 1868
Sir Robert PeelAugust 31, 1841	Mr. Gladstone December 9, 1868
Lord John RussellJuly 6, 1846	Earl Beaconsfield February 21, 1874
Earl of DerbyFebruary 27, 1852	Mr. Gladstone April 29, 1880
Earl of AberdeenDecember 28, 1852	and Ch. of Ex. to April, 1883.
Viscount Palmerston. February 26, 1855	Marquis of Salisbury June 24, 1885
Earl of DerbyFebruary 26, 1858	Mr. GladstoneFebruary 2, 1886
Viscount Palmerston June 18, 1859	Marquis of Salisbury August 3, 1886
Earl RussellOctober 28, 1865	Mr. Gladstone August 15, 1892

Nineteen changes of Governments have taken place since the beginning of 1834, but in that time only nine men have been Premiers, and of these Mr. Gladstone and the Marquis of Salisbury are the sole survivors. Mr. Gladstone has been Premier longer than any other statesman since the Earl of Liverpool, who held office nearly fifteen years in succession.

In 1885 the number of members of the Lower House was finally fixed at 670, as against 658 in previous years; England returning 465, Wales 30, Scotland 72, and Ireland 103 members. The previous distribution had been-England 469, Wales 30, Scotland 60, and Ireland 103 seats. There are now 377 county members, as against 283; 284 borough members, as against 360; and 9 University members, as against 9.

THE

HOUSE OF COMMONS AS ELECTED JULY, 1892.

WITH CORRECTIONS TO DECEMBER, 1893.

				Poli	tics.			ary in,	
Constituencies.	Members.	Liberal.	Labour.	Consrtive	Liberal U.	Nationlst	Pern'llite	Parliam'ntary Population, 1891.	
BEDFORD (3). County Divisions (2). Biggleswade, or N Luton, or S	G. W. E. Russell H. Whitebread	1 1				•••		64,457 68,249	
Borough (1).		2	•			••	••	132,706	
Bedford	S. Whitbread	$\frac{1}{3}$		 	- · ·			28,028 	
BERKS. (5). County Divisions (3). Abingdon, or N Newbury. or S Wokingham, or E	P. Wroughton	 :: 	::	1				49,077 55,846 59,104 164,027	
Boroughs (2). Reading Windsor (New)	G. W. Palmer F. T. Barry	1						55,752 12,327 232,106	
BUCKS. (3). County Divisions (3). Aylesbury, or M	Baron F. de Rothschild H. S. Leon Viscount Curzon	i i 			1 	•••		58,510 57,389 66,792 182,691	
CAMBRIDGE (4). County Divisions (3). Chesterton, or W Newmarket, or E Wisbeach, or N	Hugh E. Hoare	1 1 1 3		::				46,041 48,878 49,556	
Borough (1).	R. U. P. Fitzgerald			1				44,387	
		3		1				188,862	

				Poli	tics.			n, on,	
Constituencies.	Members.	Liberal.	Labour.	Consrtive	Liberal U.	Nationlst	Parn'ilite	Parliam'ntary Population, 1891.	
CHESTER (13). County Divisions (8). Altrincham. Crewe Eddisbury Hyde Knutsford Macclesfield Northwich Wirrall	C. R. Disraeli W. S. B. Mc. Laren H. J. Tollemache J. W. Sidebotham Hon. A. de T. Egerton. Bromley Davenport J. T. Brunner Colonel Cotton-Jodrell	1 1 		1 1 1 1 1 1 1				63,390 64,434 55,249 57,468 55,073 53,147 69,893 73,725	
Boroughs (5). Birkenhead	Viscount Bury R. A. Yerburgh T. H. Sidebottom G. Whiteley. J. Leigh	 1 3		1 1 1 1 				99,249 42,295 44,135 70,253 748,311	
CORNWALL (7). County Divisions (6). Bodmin, or S.E. Camborne, or N.W. Launceston, or N.E. St. Austell, or M. St. Ives, or W. Truro	Rt. Hon. L. H. Courtney C. A. V. Conybeare T. Owen W. A. Mc.Arthur T. B. Bolitho J. C. Williams	1 1 1			1 1			52,386 54,192 48,086 49,517 50,160 50,715	
Borough (1). Penryn and Falmouth	W. G. C. Bentinck	3		1 1	3			305,056 17,533 322,589	
CUMBERLAND (6). County Divisions (4). Cockermouth Egremont, or W Eskdale, or N Penrith, or M Boroughs (2).	Sir Wilfrid Lawson D. Ainsworth R. A. Allison J. W. Lowther	1 1 3		1				63,592 53,629 45,300 45,636 208,157	
Carlisle		1 1 5		1				39,176 19,217 266,550	

				Poli	tics.		- 1	ary n,
Constituencies.	Members.	Liberal.	Labour.	Constive	Liberal U.	Nationlst	Parn'llite	Parliam'ntary Population, 1891.
DERBY (9). County Divisions (7). Chesterfield High Peak Ilkeston Mid North-Eastern Southern Western	T. Bayley Captain Sidebottom Sir W. B. Foster J. A. Jacoby T. D. Bolton H. E. Broad V. C. Cavendish	1 1 1 1 1 		i 1	 1 			61,294 60,740 69,195 59,710 61,995 63,810 56,987
Boroughs (2). Derby (2)	Rt. Hon. Sir W. Harcourt T. Roe	1 7	•••	1	1			} 94,140 527,880
DEVON (13). County Divisions (8). Ashburton, or M Barnstaple, or N.W Honiton, or E South Molton, or N Tavistock, or W Tiverton, or N.E Torquay Totnes, or S.	C. Seal Hayne A. Billson Sir J. Kennaway G. Lambert H. C. F. Luttrell Sir W. Walrond R. Mallock F. B. Mildmay	1					•••	53,003 61,343 52,023 46,713 50,714 52,763 57,463 49,613
Boroughs (5). Devonport (2)	Hudson Kearley E. J. C. Morton Hon. Sir H. S. Northcote Sir E. Clarke Sir W. Pearce	1		i			:::::::::::::::::::::::::::::::::::::::	} 70,233 50,576 } 87,30°
DORSET (4). County Divisions (4). Eastern Northern Southern Western	Hon. H. Sturt J. K. Wingfield Digby W. E. Brymer H. Farquharson	٠.	-:	1 1 1 1				57,20 45,74 49,89 41,64 194,48

				Poli	tics.			lary
Constituencies.	Members.	Liberal.	Labour.	Constive	Liberal U.	Nationlst	Parn'llite	59,459 61,833 70,206 69,235 80,532 67,635 65,987 63,830 538,717 38,030 15,287 85,416 68,895 142,097 1.032,083 55,416 55,612 54,572 103,543 47,422 69,824 101,236 545,938 34,559 92,304 112,598 785,399
OURHAM (16). County Divisions (8). Barnard Castle Bishop Auckland Chester-le-Street Houghton-le-Spring Jarrow Mid North-Western South-Eastern	Sir J. W. Peace J. M. Paulton J. Joicey Captain H. T. Fenwick Sir C. M. Palmer J. Wilson Atherley Jones J. Richardson	1 1 1 1 1	i i i			-		61,833 70,200 69,233 80,533 67,633 65,987 63,830
Boroughs (8). Darlington Durham Gateshead Hartlepool South Shields Stockton Sunderland (2) (2)	Theodore Fry M. A. Fowler William Allan C. Furness J. C. Stevenson T. Wrightson S. Storey Colonel Gourley	7 1 1 1 1 1 1 1	1	1				38,030 15,287 85,712 64,914 78,431 68,895
ESSEX (11). County Divisions (8). Chelmsford, or M Epping, or W Harwich, or N.E Maldon, or E Romford, or S. Saffron Walden, or N. South-Eastern Walthamstow, or S.W. Boroughs (3). Colchester West Ham, North South	T. Usborne Colonel Lockwood J. Round Cyril Dodd, Q.C. J. Theobald H. C. Gardner Major Rasch E. W. Byrne, Q.C. Captain Naylor-Leyland Archibald Grove J. Keir Hardie	1 1 2 1 3		1 1 1 1 1 1 1 1 1 7				58,318 55,416 55,612 54,572 103,548 47,422 69,824 101,236 545,938 34,555 92,304 112,598
GLOUCESTER (11). County Divisions (5). Cirencester, or E. Forest of Dean Stroud, or M. Tewkesbury, or N. Thornbury, or S.	H. W. Lawson	1 1 1		1 1 2				53,364 52,791 56,488 50,325 63,587

				Polit	tics.			n,
Constituencies.	Members.	Liberal.	Labour.	Constitive	Liberal U.	Nationlst	Parn'llite	Parijam'ntary Population, 1891,
GLOUCESTER.—Con. Boroughs (6). Bristol, East, North, South West Cheltenham Gloucester	Sir J. D. Weston Charles Townsend Sir Edward Hill Sir M. Hicks-Beach J. T. Agg-Gardner T. Robinson	1 1 1		1 1 1 1			•••	70,688 77,173 72,273 65,483 49,778 39,444 651,388
HANTS (12). County Divisions (6). Andover, or W Basingstoke, or N Fareham, or S Isle of Wight New Forest Petersfield, or E	W. W. B. Beach			1 1 1 1 1				51,228 70,497 65,987 78,718 51,300 47,168
Boroughs (6). Christchurch	Abel H. Smith John Baker W. O. Clough T. Chamberlayne F. H. Evans W. H. Myers	1 1 1 		1				53,276 159,25 93,59 19,07
		3		9				690,08
HEREFORD (3). County Divisions (2). Leominster, or N Ross, or S	J. Rankin			1	1 1			45,83 49,88 95,71
Borough (1).	R. Cooke			1				20,26
Tiererora	THE COOKS THE THE TENTE OF THE			2	1	-		115,98
HERTFORD (4). County Divisions (4). Hertford, or E Hitchin, or N St. Albans, or M Watford, or W	A. Smith G. B. Hudson Vicary Gibbs T. F. Halsey			1 1 1				54,57 48,43 53,23 63,87 220,12

			Poli	tics.			n,
Members.	Liberal.	Labour.	Consrtive	Liberal U.	Nationlst	Parn'llite	Parliam'ntary Population, 1891.
						11.	
A. H. Smith-Barry			1				25,422
Hon. A. E. Fellowes	••	• •	1		• •		29,558
			2				54,980
				<u> </u>			01,000
L. Hardy		٠	1				67,946
Rt. Hon. Sir W. Hart-Dyke			1				79,850
H. T. Knatchbull-Hugessen			1				69,343
Rt. Hon. J. Lowther			1				61,617
Major C. E. Warde			1				64,178
H. W. Forster			1				80,062
			1				68,011
A. Griffith-Boscawen			1			٠.	72,596
	-		-				563,603
I Hoppiker Heston]						22,607
	- 1			1 3			59,389
	- 1						
	- 1						101,326
				1	1 1		33,313
	- 4			1 1			35,492
			1 1		• • •		78,131
	- 1						35,540
							88,643
							32,145
							26,170
Colonel Hughes		•	1	-:-	•	•••	98,976
			18	1			1.175,335
ļ.		—				—	
	-			j			
Chart W. Dillan							E0 050
	- 1			- 1			70,356
				- 1	1		67,854
				- 1			64,279
w. Smith	1	•	• • •	•••	••	• • •	51,181
J. F. Leese, Q.C.	1						75,712
Sir U. Kay-Shuttleworth.	1			1	- 1	1	89,331
C.P. Huntingdon		1			- 1		70,475
J H Maden				- 1	- 1	- 1	70,567
51 111 11uu51	-	•					. 0,001
H. J. Roby	1						78,133
W. Mather	1						77,690
T. Snape	1					.	56,794
C. H. Ĥopwood, Q.C.	1						68,540
R. G. C. Mowbray			1				79,497
R. Leake	1				- 1		72,940
	1		1				67,004
J. W. Maclure						• - 1	01,001
	A. H. Smith-Barry Hon. A. E. Fellowes L. Hardy Rt. Hon. Sir W. Hart-Dyke H. T. Knatchbull-Hugessen Rt. Hon. J. Lowther Major C. E. Warde H. W. Forster Rt. Hon. A. Akers-Douglas. A. Griffith-Boscawen J. Henniker-Heaton Colonel Lloyd C. J. Darling G. Wyndham D. Palmer T. W. Boord Sir Edward Watkin J. Penn F. S. W. Cornwallis Viscount Cranborne Colonel Hughes Sir M. W. Ridley General R. J. Fielden J. Williamson W. Smith J. F. Leese, Q.C. Sir U. Kay-Shuttleworth C. P. Huntingdon J. H. Maden H. J. Roby W. Mather T. Snape C. H. Hopwood, Q.C. R. G. C. Mowbray R. Leeske	A. H. Smith-Barry Hon. A. E. Fellowes L. Hardy Rt. Hon. Sir W. Hart-Dyke H. T. Knatchbull-Hugessen Rt. Hon. J. Lowther Major C. E. Warde H. W. Forster Rt. Hon. A. Akers-Douglas A. Griffith-Boscawen J. Henniker-Heaton Colonel Lloyd C. J. Darling G. Wyndham D. Palmer T. W. Boord Sir Edward Watkin J. Penn F. S. W. Cornwallis Viscount Cranborne Colonel Hughes Sir M. W. Ridley General R. J. Fielden J. Williamson 1 W. Smith 1 J. F. Leese, Q.C. Sir U. Kay-Shuttleworth 1 C. P. Huntingdon 1 J. H. Maden 1 H. J. Roby 1 W. Mather 1 T. Snape 1 C. H. Hopwood, Q.C. 1 R. G. C. Mowbray R. Leake 1	A. H. Smith-Barry Hon. A. E. Fellowes L. Hardy Rt. Hon. Sir W. Hart-Dyke H. T. Knatchbull-Hugessen Rt. Hon. J. Lowther Major C. E. Warde H. W. Forster Rt. Hon. A. Akers-Douglas. A. Griffith-Boscawen J. Henniker-Heaton Colonel Lloyd C. J. Darling G. Wyndham D. Palmer T. W. Boord Sir Edward Watkin J. Penn F. S. W. Cornwallis Viscount Cranborne Colonel Hughes Sir M. W. Ridley General R. J. Fielden J. Williamson 1 W. Smith 1 J. F. Leese, Q.C. Sir U. Kay-Shuttleworth 1 C. P. Huntingdon 1 J. H. Maden 1 H. J. Roby 1 W. Mather 1 T. Snape 1 C. H. Hopwood, Q.C. 1 R. G. C. Mowbray R. Leake 1	Members.	A. H. Smith-Barry	Members.	Members. Temple Temple

				Poli	tics.			ar.
Constituencies.	Members.	Liberal.	Labour.	Consttive	Liberal U.	Nationlst	Parn'llite	97,552 67,021 65,155 63,290 64,096 76,581 64,507 1,641,624 47,322 51,712 } 120,064 } 118,730 86,163 55,494 63,920 64,461 85,407 77,018 53,732 66,466 76,971 64,461 85,407 76,622 72,794 67,632 80,051 71,968
LANCASTER.—Con.								
SWestern Part (7).	Colonal Conden			,				07 55
Bootle	Colonel Sandys		1.	1	• • •	•••	1	
Ince	Samuel Woods		l .	•••	• • •	• •		
Leigh			••	i		::		
Ormskirk	T. W. Leigh			i				
Southport	Hon. G. N. Curzon	::		1			•	
Widnes	J. S. Gilleat			1				
пишен пишен	01 St GG	_	 		_			
Boroughs (34).		12	-	10				
Ashton-under-Lyne	J. E. W. Addison, Q.C			1				
Barrow-in-Furness	C. W. Cayzer						1	51,71
Blackburn (2)	W. H. Hornby							120.06
(=)	W. Coddington							,
Bolton (2)	H. Shepherd Cross		• •					118,73
(Hon. Colonel Bridgeman		• •					96 16
Burnley	Rt. Hon. H. Stanhope Rt. Hon. Sir H. James			1	i		1	
Bury	Rt. Hon. Sir H. James		• • •	••	1			00,10
Liverpool, Abercromby	W. F. Lawrence	١		1	١	١		55,56
" East Toxteth				1 -			1	63,92
" Everton	J. A. Willox				١			
" Exchange	R. Neville, Q.C	1			١	١		47,70
", Kirkdale	Sir G. Baden-Powell			1				
Scotland	T. P. O'Connor		٠.			1		
" Walton	J. H Stock				٠.			
" West Derby								
" West Toxteth	R. P. Houston			1	• • •			64,46
Manchester, East	Rt. Hon. A. J. Balfour		١	1		١	1	85,40
" North	C. E. Schwann		١	1				
" N'th-East	Rt. Hon. Sir J. Fergusson.		١	1				
" N'th-West			١	1	١			
" South	Sir Henry Roscoe	1						
" S'th-West								71,96
Oldham (9)	J. M. Cheetham							183.87
Oldham (2)	Sir J. T. Hibbert		١)
Preston (2)	R. W. Hanbury							111,69
	W. E. M. Tomlinson					1		71,45
Rochdale	T. B. Potter	1						11,10
Salford, North	W H. Holland	1	١					61,52
" South	Sir H. H. Howarth							68,87
" West	Lees Knowles							67,74
CI TT.I	TI Seten Very			1				71.28
St. Helens	H. Seton-Karr			1 -	::	1	1	55,34
Warrington	R. Pierpoint			-				55,01
Wigan	SIL E. S. LOWEII			-				
		21	1	33	1	1		3.906.87

				Poli	tics.			ar; m,
Constituencies.	Members.	Liberal.	Labour.	Constive	Liberal U.	Nationlst	Parn'llite	Parllam'ntary Population, 1891.
LEICESTER (6). County Divisions (4). Bosworth, or W Harborough, or S Loughborough, or M Melton, or E	C. B. Mc.Laren J. W. Logan J. E. Johnson-Ferguson Marquis of Granby	1 1 1		 1				57,240 59,368 55,164 59,852
Boroughs (2). Leicester (2)	J. A. Picton	3 1 1		1				231,624
LINCOLN (11). County Divisions (7). Brigg, or N. Lindsey. Gainsboro', or W. L'sey Horncastle, or S. L'sey Louth, or E. Lindsey. Sleaford, or N. Kestevn Spalding, or Holland Stamford, or S. Kest'vn	Rt. Hon. E. Stanhope R. W. Perks	1 1 1 		1				49,15; 49,59; 46,07; 46,86; 45,47; 49,27; 47,64;
Boroughs (4). Boston	W. J. Ingram	4 1 1		3 1 4	i 1			334,093 18,92 17,170 58,600 43,983 472,773
MIDDLESEX (47). County Divisions (7). Brentford Ealing Enfield Harrow Hornsey Tottenham Uxbridge	J. Bigwood Rt. Hon. Lord G. Hamilton Captain H. F. Bowles W. Ambrose. H. C. Stephens Joseph Howard F. D. Dixon Hartland			1 1 1 1 1 1 1				69,79 70,75 84,38 96,72 78,04 97,16 67,75
Boroughs (40). Bethnal Green, N.E ,,,,, S.W Chelsea City of London (2) Finsbury, Central	George Howell E. H. Pickersgill C. A. Whitmore Sir R. Hanson A. G. H. Gibbs D. Naoroji	1 1		٠.				564,619 66,804 62,336 96,279 37,694 65,888

				Poli	tics.			Br.
Constituencies.	Members.	Liberal.	Labour.	Constitve	Liberal U.	Nationist	Parn'llite	Parliam'ntary Population, 1891.
HIDDLESEX.—Con.								
Finsbury, East	J. Rowlands	1						45,300
,, Holborn	Sir Charles Hall, Q.C			1		• •	• •	70,918
Fulham	W. H. Fisher		1 .	1	• •	• •	• •	91,640
Hackney, Central	Sir A. Scoble, Q.C			1	• •		••	64,76
" North	W. R. Bousfield, Q.C			1	• •	• •	• •	77,170
,, South	Sir Charles Russell, Q.C		1	-	• •	٠.		87,60 97,23
Hampstead	General Goldsworthy E. Broadie-Hoare			1 .	• •	• •	::	68,42
Islington, East	B. L. Cohen				• •			83,88
,, North	G. C. T. Bartley	::		1				90,27
,, South	Sir Albert Rollitt			1 -				71,910
,, West	T. Lough							73,36
Kensington, North								82,65
South								83,66
Marylebone, East	E. Boulnois							66,67
,, West	F. Seager Hunt							75,70
Paddington, North	John Aird			1 =				64,67
, South	Rt. Hon, Lord R. Churchill			-				53,16
Shoreditch, Haggerstn				-				56,35
Hoxton								67,65
St. George's, Hn'vr-sq.					1			78,36
St. Pancras, East								60,84
37				i -			1	59,12
" Careth				::	1			53,76
West	H. R. Graham				·			60,70
Strand	Hon. W. F. D. Smith			ī)		64,67
Strain Contract Contr	11011. 11. 12. 5111.011			-				,
Tower Hamlets:		1						
Bow and Bromley	J. M. Mc.Donald							88,64
Limehouse	J. S. Wallace							55,23
Mile End	Spencer Charrington							48,85
Poplar	Sidney Buxton	1					1	78,05
St. George	J. W. Benn						• •	47,91
Stepney	F. W. Isaacson			1	• •			58,71
Whitechapel	Samuel Montagu	1			• •	• •	• • •	74,42
Westminster	W. Burdett-Coutts			1				55,76
		15		30	2			3,251,70
IONMOTITE (4)		-	-	-				
IONMOUTH (4). County Divisions (3).								
Northern		1	١					62,69
Southern	Hon. F. C. Morgan		::	i				66,13
	C. M. Warmington		::					64,69
Western	C. M. Wallington	_					-	
Rorough (1)		2		1				193,51
Borough (1).	Albert Spicer	1 -	1	1				58,74
Monmouth Group	Albeit Spicer		L:					
		3		1				252,26
		1	١.,	_				, ,

				Poii	tics.		}	B,
Constituencies.	Members.	Liberal.	Labour.	Consttive	Liberal U.	Nationlet	Parn'ilite	Parliam'ntary Population, 1891.
NORFOLK (10). County Divisions (6). Eastern Midland Northern North-Western South-Western	R. J. Price C. Higgins, Q.C. H. Cozens-Hardy, Q.C. Joseph Arch F. Taylor T. L. Hare	1 1 1 	1	··· ··· i	1			40,698 49,604 51,072 51,278 49,730 47,138
Boroughs (4). Great Yarmouth King's Lynn Norwich (2)	J. M. Moorson, Q.C. T. Gibson Bowles S. Hoare J. J. Colman	3 1 1	1	1 1 1 1	1		•	289,510 49,318 18,265 100,970
NORTHAMPTON (7).		5	1	3	1			458,068
County Divisions (4). Eastern Mid Northern Southern	F. A. Channing	i		i 1			•••	65,499 48,790 46,728 46,628
Boroughs (3) . Northampton (2) $\{$ Peterborough	H. Labouchere M. P. Manfield A. C. Morton	3 1 1 1				••	•••	207,640 } 70,872 26,464
NIDMITIMEDIDI INTO (O)		6		1				304,976
N'RTH'MB'RL'ND(8). County Divisions (4). Berwick-on-Tweed Hexham Tyneside Wansbeck	Sir Edward Grey Miles Mc.Innes J. A. Peace C. Fenwick	1 1 1	· · · · · · · · · · · · · · · · · · ·					52,442 51,587 69,642 59,701
Boroughs (4). Morpeth Newcastle-on-T'n (2) Tynemouth	Thomas Burt	3	1 1	1 1				233,372 40,138 186,324 46,267
310MMT31G11435 (#)		4	2	2				506,096
NOTTINGHAM (7). County Divisions (4). Bassetlaw Mansfield Newark Rushcliffe	Sir F. Milner J. C. Williams Viscount Newark J. E. Ellis	i i		1		1	••	51,459 65,790 50,035 66,617
		2		2				233,894

				Poli	tics.			tar,
Constituencies.	Members.	Liberal.	Labour.	Constive	Liberal U.	Nationlet	Parn'llite	20,659 55,920 53,035 54,178 46,224 209,357 26,967
NOTTINGHAMCon. Boroughs (3). Nottingham, East South West	Arnold Morley	1		i	i			60,487
		3		3	1			445,599
OXFORD (4). County Divisions (3). Banbury, or N	Sir B. Samuelson	1 :·· i		i				48,145
Borough (1).	Sir George Chesney	2 		1				
		2		2				188,211
RUTLAND (1). County Division (1). Rutland	G. H. Finch			1				20,650
SALOP (5). County Divisions (4). Ludlow, or S Newport, or N Oswestry, or W Wellington, or M	R. J. More Colonel Kenyon Slaney Stanley Leighton A. H. Brown			1	1 i			53,035 54,178
Borough (1). Shrewsbury	H. D. Greene, Q.C.			2	2			
		<u> </u>		3	2			236,324
SOMERSET (10). County Divisions (7). Bridgwater Eastern Frome Northern Southern Wellington, or W. Wells Boroughs (3).	E. J. Stanley H. Hobhouse J. E. Barlow T. Courtenay Warner Edward Strachey Sir A. Acland-Hood Sir R. Paget Colonel Wyndham Murray.	1 1 1 		1 1	1			360,939
Bath (2)	E. R. Wodehouse A. P. Allsopp							. 94.000
		3		5	2			432,913

					tics.			on,
Constituencies.	Members.	Liberal.	Labour.	Consrtive	Liberal U.	Nationlet	Parn'llite	58,640 84,782 47,665 56,711 52,006 63,166 56,546 419,516 86,845 54,184 20,270 75,352 71,791 69,083 59,489 54,511 57,096 62,718 1,030,855 61,654 55,699 55,655 56,539 283,772 16,630 57,360
STAFFORD (17).								
County Divisions (7).								
Burton	Sidney Evershed						• •	
Handsworth	Sir H. Meysey Thompson		• •		1		• •	
Kingswinford	A. Staveley Hill			1	• •		• •	
Leek Lichfield	Charles Bill			1	i		• • •	
North-Western	Major L. Darwin James Heath	::	• •	i		• • •	• • •	
Western	Hamar A. Bass				i	::	::	
		1		3	3	-		
Boroughs (10).		-	•	0	1		• •	
Hanley	W. Woodall	1	• •				• •	
Newcastle-und'r-Lyme			• •					54,18
Stafford	C. E. Shaw	1	• •		• •	••		
Stoke-on-Trent	Hon. G. Leveson-Gower				• •	• •	• • •	
Walsall	Arthur Hayter		• •	1	٠.	٠.	• •	
Wednesbury West Bromwich	W. Lloyd Ernest Spencer		• •	1	• •			
Wolverhampton, E	Rt. Hon. H. H. Fowler	1		1				
					i			
,, S W	Sir A. Hickman			1				
		7		6	4		• • •	1,030,85
SUFFOLK (8).								11
County Divisions (5).								
Eye, or N.E.	F. Stephenson	1						
Lowestoft, or N	H. S. Foster			1		• •	• •	
Stowmarket, or N.W	S. J. Stern	1	• •	• •		• •	• •	
Sudbury, or S	Cuthbert Quilter	: .	• •	• •	1	• •	••	
Woodbridge, or S.E	R. L. Everett	1		•••			•••	96,93
Boroughs (3).		3	••	1	1	• •	• •	283,772
Bury St. Edmunds	Viscount Chelsea			1				16,630
- 1	Sir C. Dalrymple			1				1
Ipswich (2)	Lord Elcho	• •	• •	1			• •	5 37,300
		3		4	1		••	357,765
SURREY (22).				_				
County Divisions (6).	C II Comb			,				C1 OC
Chertsey, or N.W	C. H. Coombe T. T. Bucknill	• •	• •	1	• •	• •	• •	61,968
Epsom, or M Guildford, or S.W	Hon. St. John Brodrick		• •	1	••	• •	• •	70,103 $67,723$
Kingston	Sir R. Temple		• •	1	::		• •	85,36
Reigate, or S.E	H. Cubitt			1				64,458
Wimbledon, or N.E	Cosmo Bonsor			1		::		69,236
			—-	6	<u> </u>			418,849
		• •	• • •	9				110,010

				Poli	tics.			n,
Constituencies.	Members.	Liberal.	Labour.	Consttive	Liberal U.	Nationlst	Parn'llite	Parliam'ntary Population, 1891.
RREY.—Con.								
Boroughs (16).	7.1							
attersea	John Burns						• • •	97,20
37 11.	J. Blundell Maple			ł	1	1	• •	83,27
	E. H. Bayley F. G. Banbury						• •	88,933 83,485
apham	P. M. Thornton			-				96,95
	Hon. Sidney Herbert			-		• • •	• •	102,69
mbeth, Brixton	Marquis of Carmarthen			î				70,35
" Kennington	Mark H. Beaufoy	i		١				73.91
" North	Alderman Coldwells	1						62,51
	C. E. Tritton		١					68,41
	W. Saunders	1						59,04
" West	Captain Cecil Norton							56,62
	R. V. Barrow					• •		82,89
	J. C. Macdona		٠.	1				73,66
	R. K. Causton					• •	• •	66,77
andsworth	H. Kimber	• • •		1	•••	• •	• •	113,23
		7	1	14				1,698,81
astbourne, or S ast Grinstead, or N orsham, or N.W	Lord W. G. Lennox Vice-Admiral E. Field Hon. A. Gathorne-Hardy J. H. Johnstone Sir H. Fletcher A. M. Brookfield			1				54,35 66,46 52,52 52,97 64,02 57,09
				6	-			347,44
Boroughs (3).								
130.00000000000000000000000000000000000	G. W. E. Loder		١	1				142,12
righton (2) {	Bruce Wentworth		١	1				1
astings	Wilson Noble			1				60,87
				9				550,44
ARWICK (14). County Divisions (4).	F. A. Newdigate	i		9				55

				Poli	tics.			tary
Constituencies.	Members.	Liberal.	Labour.	Consttive	Liberal U.	Nationlst	Parn'llite	Parliam'ntary Population, 1891.
WARWICK.—Con.								
Boroughs (10).								
Aston Manor				1	•	• •	• •	68,639
Birm'gham, Bordesley		••	• • •	• •	1	• •		82,863
,, Central East	J. A. Bright Rt. Hon. H. Matthews	• • •	••	1	_	• •		59,099
Edghastan			• •			•••		65,683 67,682
North		••			1			62,948
South					ī			70,334
Wort	Rt. Hon. J. Chamberlain		1		1 7			69,508
Coventry	W. H. W. Ballantine				-			54,743
Warwick & Leamingtn			i .					39,102
O .		2		5	7	-		
								843,585
WESTMORLAND (2). County Divisions (2).								
Appleby, or N				1				31,176
Kendal, or S	Captain J. F. Bagot			î				34,922
ileadai, or Stittier	ouplain of the name of the same	-	_				_	
	·	••	• •	2	• •	• •	••	66,098
WILTS (6). County Divisions (5).								
Chippenham, or N.W.			1					44,356
Cricklade, or N								59,414
Devizes, or E	C. E. Hobhouse						••	48,267
Westbury, or W	G. P. Fuller			:			••	52,669
Wilton, or S	Viscount Folkestone		•••	1	• •	•••	•••	42,901
Borough (1).		3		2		•••	••	247,607
Salisbury	E. H. Hulse			1				17,362
		3		3				264,969
WORCESTER (8).								
County Divisions (5).				1				
Bewdley, or W							••	52,018
Droitwich, or M	R. B. Martin	1	1)			••	48,281
Eastern	J. A. Chamberlain		1	1:			1 1	59,357
Evesham, or S	Sir E. Lechmere						i I	49,538
Northern	B. Hingley	1			•••	<u></u>		58,437
Boroughs (3).		1		2	2		••	267,631
Dudley	Brooke Robinson							90,223
Kidderminster	A. F. Godson, Q.C.			1				26,905
Worcester	Hon. G. H. Allsopp			1	••	••	••	42,899
		1		5	2			427,658

				Poli	tics.		-	ar,
Constituencies.	Members.	Liberal.	Labour.	Consttive	Liberal U.	Nationlet	Parn'llite	Parliam'ntary Population, 1891.
ORKSHIRE (52). County Divisions (26). East Riding:								
Buckrose	A. Holden							50,67
Holderness	Commander Bethell	• •		1	• •		• • •	41,47
North Riding:	Captain W. H. Wilson-Todd			-	•••			49,62
Cleveland	H. F. Pease			i	•••	• • •		55,91
Thirsk and Malton	J. G. Lawson	•		i	• • •	• • •	• • •	54,45
Whitby	E. W. Beckett		::	1	• • •		::	57,19 54,78
Barkeston Ash	Colonel Gunter		١	1	١			48,47
Barnsley	Earl Compton			·				78,84
Colne Valley	Sir J. Kitson	1		١		١		59,34
Doncaster	C. J. Fleming		١		٠	٠.		73,15
Elland	Alderman T. Wayman							64,63
Hallamshire	Sir F. Mappin			••	• • •		• •	73,25
Holmfirth	H. J. Wilson		• •		••		• •	65,16
Keighley	Isaac Holden				• • •	·:	•••	63,26 $65,21$
Morley Normanton	B. Pickard	1	i	::	::		::	72,01
Osgoldcross	John Austin		1	::				66,77
Otley	J. Barran	ī			::			61,74
Pudsey	Briggs Priestley	1				1		49,25
Ripon	J. L. Wharton			1	١	١		54,92
Rotherham	A. H. D. Acland	1			٠.	٠.		78,5
Shipley	W. P. Byles	: .	1			••		62,10
Skipton	C. S. Roundell	1		1		i .		58,2
Sowerby	Rt. Hon. J. W. Mellor, Q.C.			••		i		63,19
Spen Valley	T. P. Whittaker							57,40
Boroughs (26).		17	2	7			•••	1,579,7
$East\ Riding:$	1			١.				CEE
Hull, Central	H. S. King	i		1				65,50 55,49
" East	Clarence Smith		1::		1	1	::	78,6
" West North Riding:	C. H. Wilson	1	1	١				,,,,,
Middlesbrough	J. H. Wilson	١	L	l	١.,	١		98,8
Scarborough	Sir G. Sitwell	١					3	33,7
	J. G. Butcher				١			66,9
York (2)	F. Lockwood, Q.C		1					00,5
West Riding:	D. T. G. G. T.	١,	1	1			1	or o
Bradford, Central	Rt. Hon. G. Shaw-Lefevre.			1	1	1	1	65,8 79,5
,, East	W. S. Caine	-		1	1	1	1	70,9
,, West	A. Illingworth Mark Oldroyd		::					72,9
Dewsbury	Rawson Shaw)
Halifax (2)	Rt. Hon. J. Stansfield					1		82,8
Huddersfield	Sir J. Crossland	١		1 -				96,4

				Poli	tics.			ary n,
Constituencies.	Members.	Liberal.	Labour.	Consrtive	Liberal U.	Nationlst	Parn'llite	Parliam'ntary Population, 1891.
YORKSHIRE.—Con. West Riding: Leeds, Central ,, East ,, North ,, South ,, West Pontefract Sheffield, Attercliffe ,, Brightside. ,, Central ,, Ecclesall ,, Hallam Wakefield	C. B. Stuart-Wortley	1 1 1 1 1 1		i				69,135 64,609 81,547 70,018 82,197 16,407 72,462 67,083 66,461 63,302 54,935 37,269
UNIVERSITIES (5). Cambridge (2)	Professor R. C. Jebb Rt. Hon, Sir J. E. Gorst Rt. Hon, Sir J. Mowbray J. G. Talbot Rt. Hon. Sir John Lubbock			1 1 1 	· · · · · · · · · · · · · · · · · · ·			
	WALES.							
ANGLESEY (1). County Division (1). Anglesey	T. P. Lewis	1						50,079
BRECON (1). County Division (1). Brecon	William Fuller Maitland	1	••		• •	•		54,5 50
CARDIGAN (1). County Division (1). Cardigan	W. Bowen Rowlands, Q.C	1						62,596
CARMARTHEN (3). County Divisions (2). Eastern Western	Abel Thomas	1				•		49,135 46,926
$\begin{array}{c} Borough~(1). \\ {\rm Carmarthen~Group}~~ \end{array}$	Major Jones	2	••	:.			•	96,061 34,513
		3	•••	٠.,				130,745

				Poli	tics.			ary m,
Constituencies.	Members.	Liberal.	Labour.	Consrtive	Liberal U.	Nationist	Parn'llite	Parliam'ntary Population, 1891.
CARNARVON (3). County Divisions (2). Arfon, or N. Eifion, or S.	W. Rathbone	1				•••		45,822 42,826
b."		2						88,648
Borough (1). Carnaryon Group	D. Lloyd George	1						29,577
		3	<u>···</u>	<u></u>	<u></u>	··-		118,225
DENBIGH (3). County Divisions (2). Eastern Western	Rt. Hon. G. O Morgan J. H. Roberts	1						47,317 46,417
Borough (1).		2					••	93,734
Denbigh Group	Hon. G. T. Kenyon	••		1				24,216
		2		l				117,950
FLINT (2). County Division (1). Flint Borough (1). Flint Group	Samuel Smith	1 1 2						53,034 23,251 76,285
GLAMORGAN (10). County Divisions (5). Eastern Gower, or W. Mid Rhondda Southern	Alfred Thomas D. D. Randall S. T. Evans W. Abraham A J. Williams	1 1 1						72,465 55,261 60,968 68,720 75,337
Boroughs (5). Cardiff Group Merthyr Tydvil { Swansea District , Town	Sir E. J. Reed	1 1 1 1 1						132,16 104,00 63,14 57,56 689,62
MERIONETH (1). County Division (1) Merioneth		. 1						49,20

HOHER	OE	COMMONS	

				Poli	tics.			n,
Constituencies.	Members.	Liberai.	Labour.	Consrtive	Liberal U.	Nationlat	Parn'llite	Parliam'ntary Population, 1891.
MONTGOMERY (2).							(1	5-0.0
County Division (1). Montgomery Borough (1).		1						40,214
Montgomery Group				1		• • •		17,789
		1		1				58,003
PEMBROKE (2). County Division (1). Pembroke	W. R. Davies	1	- 					53,921
Borough (1). Pembroke Group	C. F. E. Allen	1						35,204
•		2	<u> </u>	-			_	89,125
RADNOR (1).		_		-	-		-	
County Division (1). Radnor	F. Edwards	1	,.					21,791
	SCOTLAND.							
ABERDEEN (4).								17-7
County Divisions (2). Eastern Western				••				79,926 65,210
Boroughs (2).	W A 77	2			· ·			145,136
Aberdeen, North , South	W. A. Hunter Professor J. Bryce	1						59,992 61,631
	297 0	4		•				266,759
ARGYLL (1).	\setminus	_						
County Division (1). Argyll	D. H. Macfarlane	1					1.	61,183
AYR (4).								
County Divisions (2). Northern	Hon. T. H. Cochrane E. Wason	i			1			75,801 88,785
Boroughs (2). Ayr Group	W. Birkmyre	1	-:	::	1	::		164,586 46,200
Kilmarnock Group	S. Williamson	1						79,828
		3			1	••	••	290,614

5				Poli	tics.			tary on,
Constituencies.	Members.	Liberal.	Labour.	Consttive	Liberal U.	Nationist	Parn'llite	Parliam'ntary Population, 1891.
BANFF (1). County Division (1). Banff	Sir W. Wedderburn	1						52,663
BERWICK (1). County Division (1). Berwick	Rt. Hon. E. Marjoribanks	1	••					32,368
BUTE (1). County Division (1). Bute	A. G. Smith, Q.C		• •	1				18,217
CAITHNESS (2). County Division (1). Caithness Borough (1). Wick Group	Dr. G. B. Clark							28,587 18,108
CLACKMANNAN and KINROSS (1). County Division (1). Clackm'nan & Kinross	Rt. Hon. J. B. Balfour	1		••	1			44,309
DUMBARTON (1). County Division (1). Dumbarton	Captain J. Sinclair	1						77,440
DUMFRIES (2). County Division (1). Dumfries Borough (1). Dumfries Group	W. J. Maxwell R. T. Reid, Q.C	1				1		55,290 26,183
-	, 	1	-		1			81,478
EDINBURGH (6). County Division (1). Midlothian	Rt. Hon. W. E. Gladstone. W. Mc. Ewan	1 1 1			1			86,839 61,93 82,337 53,567 84,770
		5			1			432,83

		_		Poli	tics.			ary on,
Constituencies.	Members.	Liberal.	Labour.	Constive	Liberal U.	Nationlet	Parn'llite	Parliam'ntary Population, 1891.
ELGIN & NAIRN (2).		-						
County Division (1). Elgin and Nairn Borough (1).	J. Seymour Keay	1						37,618
Elgin Group	A. Asher, Q.C	1						33,292
	1	2						70,90
FIFE (4). County Divisions (2). Eastern	H. H. Asquith, Q.C	1						50,996
Western	A. Birrell	1		::				58,45
Boroughs (2). Kirkcaldy Group		1						109,454 36,90
St. Andrews Group	H. T. Anstruther			<u> ···</u>	1	<u></u>		18,94
,		3	<u></u>		1			165,29
FORFAR (4). County Division (1). Forfar	Sir J. C. Rigby, Q.C	1						67,51
Boroughs (3). Dundee (2)	John Leng	1						153,05
Montrose Group	E. Robertson					::		58,05
		4	-			_		278,62
HADDINGTON (1). County Division (1). Haddington	R. B. Haldane, Q.C	1						37,42
INVERNESS (2).								
County Division (1): Inverness	Dr. D. Macgregor	1						69,82
Borough (1). Inverness Group	Gilbert Beith	1			• • •			28,07
,		2						97,90
KINCARDINE (1). County Division (1). Kincardine	J. W. Crombie	1						34,43
		-						,-0
KIRKC'DBRIGHT (1). County Division (1). Kirkcudbright	M. J. Stewart			1				32,670

				Poli	ties.			ary on,
Constituencies.	Members.	Liberal.	Labour.	Constitve	Liberal U.	Nationist	Parn'llite	Parliam'ntary Population, 1891.
LANARK (13). County Divisions (6). Govan Mid North-Eastern North-Western Partick Southern	John Wilson J. Wynford Philipps Donald Crawford Graeme Whitelaw J Parker Smith J. H. C. Hozier	1 1 		 1	 1			78,512 71,258 85,035 75,019 77,136 52,082
Boroughs (7). Glasgow, Blackfriars & Hutchesontown , Bridgeton , Camlachie , Central , College , St. Rollox , Tradeston	A. D. Provand Rt. Hon. Sir G. Trevelyan. Alexander Cross J. G. A. Baird. Dr. Charles Cameron Sir James Carmichael A. C. Corbett			2 1 3	- 1	1		73,784 81,396 71,157 75,379 98,047 94,569 70,649
LINLITHGOW (1). County Division (1). Linlithgow				1				46,955
ORKNEY AND SHET- LAND (1). County Division (1). Orkney and Shetland PEEBLES AND SEL-	L Lyell	1			• •			54,807
KIRK (1). County Division (1). Peebles and Selkirk	W. Thorburn				1			19,074
PERTH (3). County Divisions (2) Eastern Western	Sir J. KinlochSir D. Currie				-	-	-	04 50
Borough (1).	W. Whitelaw	1		1	. 1			00.000
		1	-	. 1	1	1.		121,460

				Poli	tics.			ary n,
Constituencies.	Members.	Liberal.	Labour.	Constive	Liberal U.	Nationlst	Parn'llite	Parliam'ntary Population, 1891.
RENFREW (4). County Divisions (2). Eastern Western	H. Shaw-Stewart			1 1				66,13° 56,62°
Boroughs (2). Greenock Paisley	Sir T. Sutherland W. Dunn	 1		2	i	•		122,759 63,099 66,419
		1	•••	2	1		• •	252,27
ROSS & CR'M'RTY (1). County Division (1). Ross and Cromarty		1						71,435
ROXBURGH (2). County Division (1). Roxburgh Borough (1).	Hon. M. Napier	1		••		• •		34,537
Hawick Group	Thomas Shaw	1				••		42,244
		2		••	<u></u>	••		76,78
Boroughs (2). Falkirk Group	W. Jacks H. Smith H. Campbell-Bannerman	1		•••		•••		86,298 65,346 39,987
	-	3			-			191,626
SUTHERLAND (1). County Division (1). Sutherland		1				•••		21,267
WIGTOWN (1). County Division (1). Wigtown	Sir H. E. Maxwell			1			•	35,989
	Sir C. Pearson			l 1				
: 1			_	2				

				Poli	tics.			ary n,
Constituencies.	Members.	Liberal.	Labour.	Constive	Liberal U.	Nationlst	Parn'llite	Parliam'ntary Population, 1891.
	IRELAND.							
ANTRIM (8). County Divisions (4). Eastern Mid Northern Southern	Captain J. Mc.Calmont The Hon, R. Torrens O'Neill C. C. Connor W. G. E. Macartney	::		1 1 1				52,032 50,027 51,090 51,887
Boroughs (4). Belfast, East, , North, , South, , West	Sir Edward Harland	::			 i			205,036 85,661 67,585 58,508 61,360
ARMAGH (3).			-	7	1			478,150
County Divisions (3). Mid	D. Plunket Barton, Q.C Colonel Saunderson E. M'Hugh							45,264 49,157 43,219
			-	2	··	1		137,640
CARLOW (1). County Division (1). Carlow	J. Hammond					1		40,936
CAVAN (2). County Divisions (2). Eastern Western	S. Young E. F. V. Knox					1 1		54,405 57,515
						2		111,91
CLARE (2). County Divisions (2). Eastern		:					1 1	61,19 63,28
		-			-		. 2	124,48

				Poli	tics.			ary m,
Constituencies.	Members.	Liberal.	Labour.	Constitive	Liberal U.	Nationlet	Parn'llite	Parlium'ntary Population, 1891.
CORK (9). County Divisions (7). Eastern Mid Northern North-Eastern Southern South-Eastern Western Western	Captain Donnilan Doctor C. Tanner J. C. Flynn Dr. Commins Edward Barry W. Abraham J. Gilhooly					1 1 1 1 1 1 1		49,7(0 49,462 49,248 49,878 47,215 47,030 48,628
Boroughs (2). Cork (2)	William O'Brien Maurice Healy					1	•	97,281
DONEGAL (4). County Divisions (4). Eastern Northern Southern Western	Arthur O'Connor J. Mains J. G. S. MacNeill T. D. Sullivan			•••		9 1 1 1 1 4		45,417 46,248 46,624 47,346
DOWN (5). County Divisions (4). Eastern Northern Southern Western Borough (1).	J. A. Rentoul			1 1 1		1		52,274 54,179 51,652 50,890
Newry	P. G. Carvill	-: -:	 	3	:: 	2		222,686
DUBLIN (6). County Divisions (2). Northern		••		i.	•••		1	75,009 74,491
Boroughs (4). Dublin, College Green. Dublin Harbour St. Patrick's St. Stphn's Gr'n	T. Harrington	••		1	 i	•••	1 1 1 1	149,500 67,923 71,530 64,611 65,652
				1	1		4	419,216

				Poli	tics.			a á
Constituencies.	Members.	Liberal.	Labour.	Consrtive	Liberal U.	Nationl-t	Parn'llite	Parliam'ntae; Population, 1891.
FERMANAGH. (2) County Divisions (2). Northern	Richard M. Dane J. Magittigan			1		i		37,799 36,371
				1		1		74,170
GALWAY (5). County Divisions (4). Connemara Eastern Northern Southern	P. J. Foley J. Roche Colonel Nolan J. D. Sheehy	::		• • •	::	1	i	50,508 49,088 51,924 46,248
Borough (1).	J. Pinkerton		::	::	•••	3	1	197,758 16,959
			••	•••	• •	4	1	214,712
KERRY (4). County Divisions (4). Eastern Northern. Southern Western	J. D. Sheehan		• •	::	·· ··	1		44,437 43,417 45,588 45,694
VII DADE (0)			-:					119,100
KILDARE (2). County Divisions (2). Northern Southern	P. J. Kennedy	::						32,925 37,281
						2		70,206
KILKENNY (3). County Divisions (2). Northern Southern	P. M'Dermott					1 1		35,645 37,894
Borough (1). Kilkenny	T. B. Curran					2		73,539 13,722
		•				3	٠.	87,261
KING'S COUNTY (2) County Divisions (2). Birr Tullamore	B. C. Molloy					1	::	33,992 31,571
					-	2		65,563

Constituencies.	Members.	Politics.						on,
		Liberal.	Labour.	Constive	Liberal U.	Nationlet	Parn'llite	Parliam'ntary Population, 1891,
LEITRIM (2). County Divisions (2). North South	P. A. M'HughJ. Tully					1 1		39,235 39,383
	·				<u> </u>	2		78,618
LIMERICK (3). County Divisions (2). Eastern Western	J. Finucane			-		1 1		55,912 56,865
11 Carelli	W. Austin	···			···	2		112,777
Borough (1). Limerick	F. A. O'Keefe					1		46,135
			•			3		158,912
LONDONDERRY (3). County Divisions (2). Northern Southern	H. L. Mulholland Sir T. Lea			1	i			59.824 58,985
Borough (1). Londonderry	John Ross, Q.C.		•••	1	1	•••	• •	118,809 33,200
	, (2	1			152,009
LONGFORD (2). County Divisions (2). Northern Southern	Justin Mc.Carthy	::				1 1 2	•	26,735 25,912 52,647
LOUTH (2). County Divisions (2). Northern	Timothy Healy D. Ambrose	 				1 1		37,571 33,467
Southern	D. Amorose		-			_		71,038
MAYO (4). County Divisions (4). Eastern Northern Southern Western	John Dillon					1 1 1 1		52,456 53,669 55,98' 56,93
						4		219,03

HOUSE OF COMMONS.

				Poli	tics.		- 1	ary m,
Constituencies.	Members.	Liberal.	Labour.	Constitve	Liberal U.	Nationlst	Parn'llite	Parliam'otary Popu ation, 1891.
MEATH (2). County Divisions (2). Northern Southern	Mr. Gibney					1		38,854 38,133
		• • •				2		76 987
MONAGHAN (2). County Divisions (2). Northern Southern	Charles Diamond F. O'Driscoll		4			1		43,536 42,670
111				··	••	2		86 206
QUEEN'S CO'NTY (2). County Divisions (2). Leix Ossory	M. A. MacDonell E. Crean							32,060 32,823
						2		64.883
ROSCOMMON (2). County Divisions (2). Northern Southern	M. Bodkin L. P. Hayden		-:			1	i	56,700 57,691 114,397
CTTCO (9)					<u> </u>	-	-	
SLIGO (2). County Divisions (2). Northern Southern	B. Collery							48,680 49,327
						2		98,013
TIPPERARY (4). County Divisions (4). Eastern Mid Northern Southern	T J. Condon Mr. Hogan P. J. O'Brien F. Mandeville		::		::	1		44,738 43,900 43,426 41,128
						4		173,188
TYRONE (4). County Divisions (4). Eastern Mid Northern Southern	W. J. Reynolds M. J. Kenny Lord F. Hamilton T. W. Russell		::	i	::	1		44,760 43,404 42,403 40,834
				1	1	2		171,401

HOUSE OF COMMONS.

				Poli	tics.			ary nn,
Constituencies.	Members.	Liberal.	Labour.	Consttive	Liberal U.	Nationlst	Parn'llite	Parliam'ntary Population, 1891.
WATERFORD (3). County Divisions (2). Eastern Western	P. J. Power					1		33,347 37,191
Borough (1). Waterford	J. E. Redmond	•••	••			2	i	70,538 27,713
NATIONAL AND TO A		٠.				2	1	98,251
WESTMEATH (2). County Divisions (2). Northern Southern	J. Tuite	 -:				1	•	33,735 31,374
WEXFORD (2).		··		•••		2	••	65,109
County Divisions (2). Northern	Thomas Healy Peter Ffrench					1		55,357 56,421
(NICIZI OHZ 70)		•••				2		111,778
WICKLOW (2). County Divisions (2). Eastern Western	J. Sweetman					1	••	31,382 30,754
						2		62,136
UNIVERSITIES. Dublin University (2) {	Rt. Hon. D. R. Plunkett E. Carson, Q.C	•••		1 1 2				

. The General Election of 1892, with corrections to December, shows that the Liberal gain was 52, or equal to 104 on a division, giving Mr. Gladstone a majority of 38, as shown below: -

At Dissolution, June, 1892.	GENERAL ELECTION, 1892, With Corrections to December, 1893.					
Conservatives $\begin{array}{c} 302 \\ \text{Lib. Unionists} \end{array} = 368 \text{ Ministerialists.}$	$ \begin{array}{ccc} \text{Liberals} & & & 273 \\ \text{Irish Nationalists} & & & 72 \\ \text{Parnellites} & & & 9 \\ \end{array} = 354 $					
Liberals 216) = 302 Opposition. Ministerialist Majority 66	Conservatives 269 Dissentient Liberals 47 = 316 $\phantom{00000000000000000000000000000000000$					

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		Population.	27,464,850	1,518,010	4,017,452	4,704,750	9670 37,705,062
		Letel.	65 2	90	72		707
rs.		Parnellite.	465	:	:	9 103	1 9
TOTALS.		Nationalist.		:	:	7.1	1 21
-	Members.	Liberal U.	333	:	=	4	1 84
	Меп	Constructive.		01	=======================================	19	1
		Labour.	10 236	:	:	:	10 268
		Liberal.	5 185	82	20	:	9 263
ä.	1	Total.	5.1	:	C1	63	1 6
UNIVER- SITIES.	Mem- bers.	Liberal U.	-	:	:	:	
Sis	Mo	Constytive.	41	<u>:</u>	C1	61	
		Population.	226 13,626,602	521,427	1,838,214	791,531	4 284 16,777,774
		Total.	526	=======================================	31	16	284
онв		Parnellite.	:	:	:	4	4
Вовопеня.	, ai	.tsilsnoitsN		:	:	9	<u> </u>
ň	Members.	Liberal U.	15	:	9	63	23
	Mer	Constylive,	4 119	61	C1	4	4 127
		Labour.		:	:	:	1
		Liberal.	87	C	23	:	
		Population.	234 13,838,248	996,583	2,179,238	3,913,219	5 377 20,927,288 119
		Total.	234	19	39	85	377
TIES.		Parnellite.	:	:	:	20	
Counties	,	.teilanoitaN	:	:	:	65	33
0	Members.	Liberal U.	17	:	5	63	18
	Meı	Constylive.	6113	:	-	13	6133
		Labour.		:	:	:	
		Liberal.	86	19	27	:	144
-			:	:			on
			England	Wales .	Scotland	Ireland	

THE GENERAL

RETURN of CHARGES made to CANDIDATES at the GENERAL (both exclusive and inclusive of Returning Officers' Charges) in GRAND

	Po	ber of lling	Number	RETURNING OFFICERS' CHARGES.									
		cts and tions.	Polling Booths held in	Cost	of		Cost of Dies, Ballot Papers, Boxes, Advertisin						
	Districts.	Stations.	School- rooms.	Polling	Boo	ths.	Place Statione	,					
	1.	2.	3.	4.			5						
				£	s.	d.	£	s.	d.				
England and Wales	7,177	9,872	7,889	30,248	6	$7\frac{1}{2}$	25,136	18	$7\frac{1}{2}$				
Scotland	711	1,303	1,049	2,001	1	0	2,690	14	$3\frac{1}{2}$				
Ireland	748	1,479	385	4,725	7	1	5,607	16	1				
Total	8,636	12,654	9,323	36,974	14	81	33,435	9	0				
	TOTAL]	Expenses		DATES, EXC RS' CHARGI		SIVE	of Retur	NIN	G				

	Agen			Messe	erks nd enge		Print Advert Statio Posta an Telegr 13	isin ner age, d	ig, y,	Pul Meet	ings		Comi		
			_									_			
England	£	s.	d.	£	s.	d	£	s.	d.	£	s.	d.	£	s.	d.
& Wales		17	2	86,216	4	$2\frac{1}{2}$	269,445	19	8	16,644	1	5	26,526	15	81
Scotland	32,637	16	4	10,986	19	$7\frac{1}{2}$	32,120	19	4	2,769	9	11	2,534	19	3
Ireland	7,883	9	1	1,774	6	5	8,790	16	$7\frac{1}{2}$	192	14	8	626	11	10
												_			
Total	192,853	2	7	98,977	10	3	310,357	15	$7\frac{1}{2}$	19,606	6	0	29,688	6	$9\frac{1}{2}$

Number of Electors on Register:

Total..... 6,158,023

 England and Wales
 4,809,237

 Scotland
 604,898

 Ireland
 743,888

Maximum Scale allowed by Corrupt Practices Act, 1883:

England and Wales ... £864,190
Scotland ... 129,460
Ireland ... 135,780

Total.....£1,129,430

^{*}Note. - The Averages in Column 21 have been calculated from the Totals of

ELECTION, 1892.

ELECTION, in 1892, specifying the Total Expenses of Candidates England and Wales, Scotland, and Ireland. Summary.

]	RETUR	NIN	G (Эггіс	cers' C	HA	RGES	S.				Retu	rni	ng	Total Returning Officers' Charges as				
Offic Clerks, (Presiding ficers, Counting Counting Officer or his Official.						All Char the Re	g	'ОТА	L.		Charg Paid, v reduc Taxa or oth	vhe ed tio	the by n	er						
6				7.				_	9.				10.								
£	s.	d.	£		s.	d.	£	8	. d	. €		8.	d.	£	s.		d.				
66,402	7	2	19,2	56	9	2	14,13	1 5	2 11	155,1	75	4	$6\frac{1}{2}$	154,165	14	7	7 <u>1</u>				
10,629	1	5	1,3	06	14	7	1.228	3 4	1 8	17,8	55	16	0	17,855	16	()				
9,686	6	4	2,6	10	13	0	3,818	3 1'	7 10	28,2	60	1	5	25,520	12	. ()				
86,717	14	11	23,1	73	16	9	19,178	3 8	5 6	201,2	91	1	111	197,542	2	7	7 1/2				
						-				of Ca incl				Numbe of Votes		Š	Polle				
Miscella Matt	ers.		Pers Expe	ens			Tot Exper	ases	s.	incl Ret Officers	usiv urn ' C 'aid.	e o ing ha	f g	of Votes Polled 1 Candida	oy	Average Cost per					
Matt	ers.		Exp		es.	1.		ases	d.	incl Ret Officers	usiv urn ' C	e o ing han	f g	of Votes Polled	oy	2	1.				
Matt	ers.	d.	Expe	7.	es.	-	Exper	s.	d.	inel Ret Officers I	usive urn ' C'aid. 19.	e o ing han	of g rges	of Votes Polled 1 Candida	by tes	2	1. d				
Matt	s.	d. 0½	Expe	7. s.	es.	1 6	Exper	s.	d.	incl Ret Officers I	usive urn ' C'aid. 19.	e o ing han	of g rges d.	of Votes Polled I Candida 20.	by tes	s.	1. d				
Matt 16 £ 50,931	s. 9	d.	£ 40,326	7. s. 5	es.	1 6	18 £ 342,422	s. 12	d. 10	incl Ret Officers I	usivurn ' C'aid. 19.	e o ing	of g rges d. 5½	of Votes Polled 1 Candida 20.	by tes 5	2: s.	1. d 2 8				
Matt 16 £ 50,931 6,761 1	s. 9	d. 0½ 3½ 3½ 3½	£ 40,326 6,093	7. s. 5	es. 7 5 11	1/2	18 £ 642,422 93,905	s. 12	d. 10 2½	incl Ret Officers I £ 796,58	18 1 2 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e o inghan	d. 5½ 2½	of Votes Polled 1 Candida: 20. 3,725,85 475,13	55 0	2: s. *4 *4 *2	1. d. 2 8 83				
Matt 16 £ 50,931 6,761 1 2,318 1	s. 9	d. 0½ 3½ 3½ 3½	Exp. 1 £ 40,326 6,093 2,995	7. s. 5 2	6 7 5 11 0	1 6 1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 £ 42,422 93,905 24,730	s. 12 6 2	d. 10 2½ 0⅓	### incl Ret Officers ### ### ### ### ### #### ############	18 1 2 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e o inghan	d. 5½ 5½	of Votes Polled 1 Candida 20. 3,725,85 475,13 404,45	55 0 7	s. •4 •4 •4 •4	1. d. 2 8 83 1				
Matt 16 £ 50,931 6,761 1 2,318 1	s. 9 19 15 3	d. 0½ 3½ 3½ 7½	Expo 1 £ 40,326 6,093 2,995 49,415	7. s. 5 2 11	6 7 5 11 0 · · · · · · · · · · · · · · · · ·	1 6 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	18 £ 42,422 93,905 24,730 61,058	s. 12 6 2	d. 10 2½ 0⅓ 1	### incl Ret Officers ### ### ### ### ### #### ############	usiv. urn. ' C'aid. 19. s s 1 2 10 2 10	e o inghan	ff	of Votes Polled 1 Candida 20. 3,725,85 475,13 404,45 4,605,44 Cand	55 0 7	s. •4 •4 •4 •4	1. d. 2 8 83 1				

PARLIAMENTS OF THE UNITED KINGDOM.

	Assembled.	Dissolved.	Duration.		Assembled.	Dissolved.	Duration.
	GEORGE III.		Yrs. m. d.		WILLIAM IV.		Yrs. m. d.
1	Sept. 27, 1796*	June 29, 1802	5 9 2	11	Jan. 29, 1833	Dec. 30, 1834	1 11 1
2	Oct. 29, 1802	Oct. 25, 1806	3 11 27	12	Feb. 19, 1835	July 17, 1837	
3	Dec. 15, 1806	April 29, 1807	0 4 14		VICTORIA.	,,	
4	June 22, 1807	Sept. 29, 1812	5 3 7	13	Nov. 15, 1837	June 23, 1841	3 7 8
5	Nov. 24, 1812	June 10, 1818	5 6 16	14	Aug. 19, 1841	July 23 1847	5 11 4
6	Jan. 14, 1819	Feb. 29, 1820	1 1 15	15	Nov. 18, 1847	July 1, 1852	4 7 18
				16	Nov. 4, 1852	Mar. 21, 1857	4 4 17
	GEORGE IV.			17	April 30, 1857	April 23, 1859	
7	April 23, 1820	June 2, 1826	6 1 9	18	May 31, 1859	July 6, 1865	6 1 6
8	Nov. 14, 1826	July 24, 1830	3 8 10	19	Feb. 1, 1866	Nov. 11, 1868	2 9 10
		,	1	20	Dec. 10, 1868	Jan. 26, 1874	5 1 16
	WILLIAM IV.			21	Mar. 5, 1874	Mar. 25, 1880	6 0 20
9	Oct. 26, 1830	April 22, 1831	0 5 27	22	April 29, 1880	Nov. 18, 1885	
1ŏ	June 14, 1831	Dec. 3, 1832	1 5 9	23	Jan. 12, 1886	June 25, 1886	
- 0	12,2002	2.002		24	Aug. 5, 1886	June 28, 1892	
				25	Ang. 4, 1892	June 20, 1092	J 5 10 24

^{*}Parliament first met after the Union with Ireland, Jan. 22, 1801.

LIST OF ADMINISTRATIONS IN THE PRESENT CENTURY.

Date.	Prime Minister.	Dur	ation.	Ch uncellor.	Exchequer.	Home Secretary.	Foreign Sec.
	William Pitt Hy. Addington	Yra 17	Days. 84	{Tturlow Loughboro' Eldon	William Pitt.	Portland Portland, Pelham, C. Yorke.	Grenville.
Mar. 17, 1801	Hy. Addington	3	อษ	Eluon			Hawkesbury
May 15, 18 ⁰ 4	William Pitt	1	272	Eldon	Willi₁m Pitt	Hawkesbury	Harrowby. Mulgrave.
Feb. 11, 1806	Lord Grenville	1	48	Erskine	Lord H. Petty	Spencer	Challes J. Fo
Mar. 31, 1807	Duke of Portland	2	246	Eldon	S. Perceval	Hawkesbury	G. Canning.
Dec. 2,1809	Spencer Perceval	2	190	Eldon	S. Perceval	R. Ryder	Bathurst. Wellesley.
		14	319	Eldon	(N. Vans.ttart	Sidmouth	Castlereagh.
	Earl of Liverpool		919		(F. J. Robinson	Robert Peel Sturges Bourne	G. Canning.
-	George Canning.	0	134	-	3. Canning	Lausdowne	Dudley.
Sept. 5, 1827	Visct. Goderich	0	142	Lyndhurst .	J. C. Herries.	Lansdowne	Dudley.
	D. of Wellington.	2	301	Lyndhurst .	H. Goulburn	Robert Peet	Dudley.
	Earl Grey	3	238		Althorp	Melbourne	Palmerston.
	Visct. Me bourne	0	161		Althorp	Duncannon	Palmerston.
, ,	Sir Robert Peel	0	113	Lynahurst .	Sir R. Peel	H. Goulburn Lord J. Russell)	Wellington.
	Visct. Melbourne	6	141	Cottenh m	F. T. Larring	Normanby	Palmerston.
Sept. 6, 1841	Sir Robert Peel	4	803	Lyn hurst .	H. Goulburn	Sir J. Graham	Aberdeen.
July 6,1846	Ld. John Russell	5	236	Cottenham .	Sir C. Wood	Sir George Grey	Palmerston.
Feb. 27, 1852	Earl of Derby	0	305	St.Leonards	B. Disraeli	S. H. Walpole	75 1 1
Dec. 28, 1852	Earl of Aberdeen	2	44	Cranworth .	W. Gladstone.	Palmerston	Lord J. Russ Clarendon.
Feb. 10,1855	Lord Palmerston	3	15	Cranworth .	W. Gladstone	Sir George Grey	(
Feb. 25, 1858	Earl of Derby	1	118	Chelmsford.		S. H. Walpole	Malmesbury
June18, 1859	Lord Palmerston	6	141	(Campbell	W. Gladstone.	Sir G. C. Lewis	Russell.
	Earl Russell	0	242	Westbury		Sir George Grey. Sir George Grey	
	Earl of Derby	í	236		B. Disraeli	S H. Waipole	Stanley.
• .	Benjmn. Disra li	0	285	Cairna	G. W. Hunt	G Hardy	Stanley.
,	W. E. Gladstone.	5	74	(Hatherley		(H. A. Bruce	(Clarendon.
		_	1.4		W. Gladstone	Robert Lowe	Grauville.
Feb. 21, 1874	Benjamin Disraeli } Earl Beaconsfield. }	6	67	Cairns	S. Nortncote	R. A. Cross	Derby.
	W. E. Gladstone.	5	57	Selborne	W. Gla stone	Sir W. Harcourt	
	Mrq. of Salisbury	0	227	Haisbury	Hicks-Beach .	R. A. Cross	Salisbury.
	W. E. Gladst ne.	0	139	Herschel	W. Harcourt	H. C. E. Childers	Rosebery.
July 24, 1886	Mrq. of Salisbury	6	17	Halsbury	Lrd. Churchill.	H. Matthews	(Iddesleigh. (Salisbury.
Ang 15 1892	W. E. Gladstone.			Herschel	W. Harcourt.	H. H. Asquith	Rosebery.

PRESIDENTS OF THE UNITED STATES OF AMERICA.

YEAR.

Declaration of Independence	1776
General Washington first President	
John Adams	1797
Thomas Jefferson1801 and	1805
James Madison	1813
James Monroe1817 and	1821
John Quincy Adams	1825
Gen. Andrew Jackson	1833
Martin Van Buren	1837
Gen. William Henry Harrison (died 4th April)	1841
John Tyler (previously Vice-President)	1841
James Knox Polk	1845
General Zachary Taylor (died 9th July, 1850)	1849
Millard Fillmore (previously Vice-President)	1850
General Franklin Pierce	1853
James Buchanan	1857
Abraham Lincoln (assassinated 14th April, 1865)1861 and	1865
Andrew Johnson (previously Vice-President)	1865
General Ulysses S. Grant	1873
Rutherford Richard Hayes, after long contest with Tilden	1877
General Garfield (shot July 2; died September 19)	1881
Chester A. Arthur, Vice-President, succeeded September 20	1881
Grover Cleveland	1885
General Benjamin Harrison	1889
Greyor Claydond	1802

The United States of America form a Federal Republic, consisting of 38 partially independent States, divisible as follows:—6 Eastern, or New England, 4 Middle, 10 Southern, 18 Western; and 1 Federal district, and 8 organised Territories, the centre of North America.

The area in English square miles is estimated at 5,034,459, or 1,942,053,760 acres, exclusive of the vast district of Alaska, comprising 369,529,600 acres. One-fourth only is civilised.

The estimated population of the whole of the Territories, including the States, according to the Census of 1890, was 62.622,250, every country under Heaven being represented. The increase in the ten years 1880–1890 was 12,466,467.

EQUIVALENTS.
ENGLISH
THEIR
AND
MONEYS
FOREIGN

i.e., silver to 1.	Intrinsic Value with Silver per Troy Ounce.
604d., i.e., Gold to Silver as 15·5 is to 1.	8. 8. 10. 0 2 2 2 0 0 0 0 0 4 1 1 4 4 0 0 0 1 1 1 1 1 1 1
SILVER COINS. Denominations.	Peso of 100 centesimos Florin or gulden of 100 kreutzer 4-florin 1 milreis of 1,000 reis 1 peso of 100 centavos Tael of 10 mace or 100 conderin or 1000 cash 1 croun of 100 ore 1 plastre 1 plastre 1 franc of 100 centimes 1 reichsmark of 100 penninge Crown of 5 shillings Shilling of 12 pence Rixdaler of 2½ florins Florin of 100 cents Rixdaler of 2½ florins Rixdaler of 2½ florins I yen of 100 sen I yen of 100 sen I peso of 100 centavos I pisstre of 40 paras Khran of 20 shahis
STERLING VALUE.	2. S. d. 0 19 10 0 19 10 0 15 10 1 0 0 15 10 1 0 0 1 0 1 0 0 1 0 0 0 0
GOLD COINS. Denominations.	See United States Ducat B-florin or 5-peso piece See France, and footnote 10 milreis 100-piastre piece 10-crown piece 10-tranc piece 10-tranc piece Crown of 10 reichsmarks Sovereign of 20 shillings See France, and footnote Ducat Ducat Ducat See France, and footnote Ofform piece Ofform piece See France, and footnote Ducat Ofform piece See France, and footnote See France, and footnote Ofform piece See Holland See Holland See Dommark, and footnote, See Holland See Dommark, and footnote, See Holland See Dommark, and footnote, See Holland See Holland See Dommark, and footnote, See Holland See Dommark, and footnote, See Holland See Holland See Dommark, and footnote, Turkish pound of 100 piastres
COUNTRY.	America Argentine Kepublic Austria-Hungary Belgium Belgium Benzil Chili, Columbia, Uruguay. China Denmark Egypt Finland France German Empire Great Britain Great Britain Great Britain Agreece Holland and Java India Italy Japan Mexico Netherlands Netherlands Norway and Sweden Ottoman Empire Fersia

Silver	diw .eomuC	glue roy (V bis T 190	airta I	T
425	01 00 C	+ 20 +	9 33	23 113	
0 0	e 0 €	0	0 4	71 ☐	
10-sol piece 1.0 1	(Rouble of 100 kopecks) [Tehetvertak or \(\frac{1}{2}\) rouble Escudo (or \(\frac{1}{2}\) dollar) of 10 reals	Peseta of 100 centimos	Piastre (Trade dollar	Dollar of 100 cents	
F- 44 604-804	9	* 0	93	14	
19	1 11 9	0 19 10	$0 + 9\frac{1}{2}$	$\frac{2}{4}$	
H 03	-	0	0	23	
10-sol piece	Imperial of 10 roubles See France, and footnote. Doubloon of 10 escudos.	25-peseta piece	10-piastre piece	Eagle of 10 dollars	See Peru, and footnote.
PeruPortugal	Russia Servia and Bulgaria	*Switzerland	Tunis Turkev.	*United States	Venezuela

ENPLANATORY NOTES.

in Greece; dinars and paras, Servia; pesetas | approximately that given in the last column. Portion corresponds to giving standard silver and centimos in Spain; leys and banis in | The rate given in the daily papers generally a constant value of 60gd. in name. The same system has been in part | corresponding coin is a "gourde."

Norway, Sweden, and Denmark employ coins (those printed in italics) that are equivalent PRANCE, Belgium, Italy, Greece, and Swit- | being also alike. Most of the South American | in terms of the old dollar (=2 escudos). The adopted by Spain, Servia, Bulgaria, Russia, | Every denomination of English money is Ounce." The exchange value of the rupce of the same weight and fineness, their names to one sovereign. The Spanish rate is given zerland constitute what is known as the States possess a standard coin, equal in value of other silver coins is approximately 'Latin" Union, and their coins are alike in | weight and fineness to the silver 5-fr. piece, | determined by the market value of silver, weight and fineness, differing occasionally generally termed a "peso." In Hayti the and may be found in the column headed "Intrinsic Value with Silver at per Troy and Roumania, but they have not joined the current in all British colonies. The exchange depends on the rate for "India Council Union. Francs and centimes of France, value of the moneys of those countries indi-Bills." In "bimetallic" countries pure Belgium, and Switzerland are designated lire | cated by a * is determined by the rate of | gold is generally taken as being worth 15½ and centesimi in Italy; drachmai and lepta exchange for the day, and may be taken as times its weight of pure silver. This pro-

See last column

Roumania; leva and stotinkis in Bulgaria. represents the number of the standard coins of table.

THE INDIAN

AREA AND POPULATION OF BRITISH TERRITORY, REVENUE NOTE.—The figures are approximate, and in all the columns except the first (From Official Sources.) For explanation

1	re	9			Rev	ENUE.		
YEARS.	Area in Square Miles. a	Population. b	Land Revenue. c	Opium.	Taxes. d	Publie Works. e	Other Receipts. f	TOTAL.
1846-7	694,000		14.53	3.68	5.75	_	1.30	25.26
1847-8	699,000		15.00	2.73	5.75	_	1.19	24.67
1848-9	771,000		14.83	3.91	5.31		1.18	25.23
1849-50	772,000		15.79	4.50	5.85	_ !	1.27	27.41
1850-1	776,000	154.79	16.27	3.79	5.72	-	1.77	27.55
1851-2	110,000	101 (0	16.24	4.26	5.77	_	1.56	27.83
1852-3	802 000		16.19	5.09	5.82	- 1	1.51	28.61
1853-4	828,000		16.07	4.78	5.75	-	1.53	28.13
1854-5	832,000	-	16.51	4.71	6 42	_	1.49	29.13
1855-6			17.11	5.20	6.81	_	1.70	30.82
1856-7k			17.91	5.01	6.86	.92	2.68	33.38
1857-8			15.32	6.86	6.19	.48	2.86	31.71
1858-9	856,000		18.12	6.15	7.79	•65	3.35	36.06
1859-60			18.76	5.89	9.62	.72	4.72	39.71
1860-1		179.13	18.51	6.68	12.66	.85	4.20	42 90
1861-2			19.69	6.36	13 43	.59	3.76	43.83
1862-3			19.57	8.06	13.55	.44	3.52	45.14
1863-4			20·61c	6.83	12.70	•46	4.01	44.61
1864-5			20.44	7.36	13.30	.59	3.96	45.65
1865-6			20.84	8.52	12.56	.92	6 10	48-94
1866-71			19.45	6.80	11.32	.54	4.01	42.12
1867-8			20.32	8.92	13.38	.56	5.35	48.53
1868-9			20.34	8.45	13.38	.55	6.54	49.26
1869-70			21.56	7.95	14.06	96	6 37	50.90
1870-1		190.56	21.08	8.04	15.67	.92	5.70	51.41
1871-2			21.02	9.26	14.21	.83	4.79	50.11
1872-3	860,000		21.37	8.69	16.25	3.90	6.34	56.55
1873-4			21.06	8.32	15.65	4.76	6.62	56.41
1874-5			21.33	8.56	15.91	5.32	6.89	58.01
1875-6			21.54	8-47	16.26	5.64	7.05	58.96

CENSUS, 1891-2.

AND EXPENDITURE, AND SURPLUS OR DEFICIT, FOR 46 YEARS. are given in millions and decimals of millions. The values are in Tens of Rupees. of references see foot of pages 598 and 599.

			EXPENI	DITURE.					
Charges of Collection,&c	Civil Admin- istration. g	Interest.	Army.	Public Works. h	Famine.	Mis- cellaneous. i	Total.	Surplus.	Deficit.
5.65	5.45	2.75	11.98	·26		.00	26.09	_	·83
6.20	5.87	2.89	11.19	.36	-	_	26.51	_	1.84
6.06	5.72	3.04	11.27	•40	_	·11	26.60	-	1.37
6.06	6.00	3.04	11.39	·35	_	.01	26.85	•56	_
6.22	6.18	3.24	10.83	•46	_	.00	26.93	·62	_
6.36	6.19	3.13	10.81	•61	_	-	27.10	.73	
6.56	6.48	3.30	11.09	.55	-	- 1	27.98	.63	
6.72	6.90	3.47	12.10	-90	_	-	30.09	-	1.96
7.39	7.08	2.92	11.62	1.94	-	-	30.95	-	1.82
7.20	7.21	3.07	11.95	2.43	_ !	-	31.86	_	1.04
6.87	5.88	2.94	12.78	4.34	-	1.04	33.85	-	.47
6.38	8.76	2.98	18.40	3.05	_		39.57	-	7.86
6.50	9.91	3.78	25.16	4.29	_	_	49.64		13.58
6.68	10.09	4.61	23.50	5.17	_	.43	50.48	_	10.77
7.63	9.89	4.99	18.57	5.37	_	.47	46.92	_	4.02
8.11	7.10	5.19	16.19	6.17	_	1.12	43.88	_	.05
8.49	7.39	5.47	14.89	5.97	_	1.11	43.32	1.82	_
8.97	7.72	5.10	14.55	7.05	_	1.14	44.53	.08	_
8.98	7.81	5.11	15.77	6.72	_	1.45	45.84	_	·19
8.45	8.67	5.21	16.76	5.13	-	1.95	46.17	2.77	_
7.64	8.35	4.89	15.82	6.13	_	1.81	44.64	_	2.52
8.95	9.22	5.74	16.10	7.42	-	2.11	49.54	_	1.01
9.25	9.99	5.65	16.27	8.28	_	2.59	52.03	_	2.77
9.23	10.31	5.61	16.33	6.89	-	2.41	50.78	.12	
9.27	9.86	5.84	16.07	6.05	_	2.84	49.93	1.48	_
8.52	10.12	5.97	15.68	4.31	_	2.39	46.99	3.12	_
7.34	9.57	5.86	15.50	10.33	_	6.18	54.78	1.77	_
7.50	9.78	5.38	15.23	11.25	3.86	5.22	58.22	-	1.81
7.81	10.05	4.84	15.38	11.53	2.24	5.84	57.69	.32	_
7 87	10.32	4.83	15.70	12.57	.60	5.48	57.37	1.59	_

THE INDIAN

AREA AND POPULATION OF BRITISH TERRITORY, REVENUE NOTE.—The figures are approximate, and in all the columns except the first

	re	o o	1		RE	VENUE.		
YEARS.	Area in Square Miles. <i>a</i>	Population.	Land Revenue. c	Opium	Taxes. d	Public Works. e	Other Receipts. f	Total.
1876–7			19.89	9.12	16.09	6 61	6 94	58-65
1877-8			20.04	9.18	16.89	8.66	7.20	61.97
1878-9			22.32	9.40	18.54	7 66	7.27	65.19
1879-80			21.86	0.32	19.15	9.37	7 73	68.43
1880-1		198.79	21.11	10.48	19.38	11.60	11 72	74.29
1881 -2			21.94	19.36	19.98	12.95	11.45	75.68
1882-3	000 040		21.87	9.50	17.66	13.05	8.19	70.27
1883-4	868,256		22:36	9 56	17 73	14.12	8 07	71.84
1884-5			21.83	8 82	18.45	14 19	7.40	70 69
1885-6			22.59	8 94	18.72	15 88	8.33	74.40
1886–7	947,887		23.06	8.94	20.38	16.86	8.10	77.3
1887-8			23.19	8.51	20.90	16 84	9 32	78.70
1888-9			23.02	8.56	22.22	18.02	9.88	81.70
1889-90			23.91	8.58	23.68	18 24	10.67	85.0
1890–1			24.04	7.88	24.39	20.05	9.38	85.7
1891–2		221,173	23.96	8.01	24.87	22.84	9.36	89.1
Total	for 46 yea	rs	914:37	336.99	632.73	257.54	254.33	2,398 0

a Excluding Berar and Mysore.

b The first census of all British India was taken in 1871. For the population figures of 1861 and 1851 an approximate figure, on the basis of the 1871 census, has been entered, to attain which deduction has been made for the population of recently acquired territory and for an annual increment to the population.

c Including for the years previous to 1864-5, the receipts from recently acquired territory not separately classified; after 1862-3 Forest Receipts are also included. From 1877-8 the portion of Land Revenue due to Irrigation is excluded from this

head and shown under Public Works.

d Excise, Assessed, Provincial Rates, Customs, Salt, and Stamps. Local Funds were incorporated in the General Accounts in 1878–9 and caused an addition of over £2,000,000 to this head, the amount being balanced by sums entered under various heads on the expenditure side.

e Including from 1876-7 Guaranteed Railway Traffic Receipts, and from 1877-8

the portion of Land Revenue due to Irrigation.

CENSUS, 1891-2.

AND EXPENDITURE, AND SURPLUS OR DEFICIT, FOR 46 YEARS.—con. are given in millions and decimals of millions. The values are in Tens of Rupees.

			Expe	NDITURE	:.				
Collection,&c	Givil Admin- istration. g	Interest.	Army.	Public Works. h	Famine.	Mis- cellaneous, i	Total.	Surplus.	Deficit.
8.40	10.61	5.05	16.46	12.86	2.14	5.72	61.24	·	2.59
8.32	10.46	5.15	17:30	13.50	5.34	6.17	66.24		4.27
7.47	10.46	5.40	17.94	14.67	•31	6.81	63.06	2.13	_
7.86	10.46	5.39	22.58	16.52	·10	6.75	69.66	_	1.23
8.05	10.67	4.63	28.93	19.19	.03	6.42	77.92	_	3.63
\cdot 8·22	11.13	4.85	19.69	18.78	1.57	7.84	72.08	3.60	
8.49	11.04	4.77	18:36	20.31	1.50	5.13	69-60	·67	
8.49	11.36	4.52	18.12	20.06	1.52	5.89	. 69.96	1.88	
9.56	11.74	4.62	16.96	20.47	1.55	6.18	71.08	_	0.39
9.80	12.24	4.33	20.10	21.84	1.50	7.46	77.27	_	2.81
9.75	12.70	4.31	19.52	23.36	·31	7.21	77.16	.18	
9.44	12.91	5.44	20.42	24.65	.09	7.84	80.79		2.03
9.74	13.01	4.71	20.30	25.71	.08	8.11	81.66	.04	_
8.91	13.23	4.24	20.68	26.53	.60	8.28	82.47	2.61	_
9.53	13.38	4.19	20.69	26.39	.60	7.47	82.25	3.49	
9.55	13.85	4.31	22.28	30.13	1.27	7.28	88.67	·47	
866.44	433-12	206.75	769-21	481.25	25.21	156.26	2,438.24	30.68	70.86
								Net defi	icit 40·18

f Forest, Registration, Tributes, Interest, Post Office, Telegraph, Mint, Receipts by Civil and Military Departments, and Miscellaneous.

g Including Minor Departments, Law and Justice, Police, Marine Education, &c. From 1870-1 to 1875-6 Allotments to Provincial Services are included.

h Previous to 1876–7 the figures include Guaranteed Railway Interest less Traffic Receipts; from 1876–7 the gross payments for Guaranteed Railway Interest is included.

i Including Post Office, Telegraph, Mint, Miscellaneous Civil Charges, Special Defence Works, and Provincial Adjustments.

k A change in the mode of preparing the accounts having been effected in 1856-7, the figures are given in the corrected form.

l The period of the financial year having been altered, the figures for 1886–7 are for eleven months only.

RAILWAY ACCIDENTS.

PROPORTION OF PASSENGERS KILLED AND INJURED FROM CAUSES BEYOND THEIR OWN CONTROL.

THE FOLLOWING STATEMENT SHOWS THE PROPORTION OF PASSENGERS RETURNED AS KILLED AND INJURED FROM CAUSES BEYOND THEIR OWN CONTROL, IN PASSENGER-JOURNEYS, FOR THE YEARS 1874 TO 1892:—

YEAR.	Number of Pass Injured from caus- control, from Ac	Number of Passengers Killed and Injured from causes beyond their own control, from Accidents to Trains.	Number of Passenger Journeys (exclusive of Journeys	Proportion returned as Killed and Injured (from causes beyond their own control) to number carried.	Killed and Injured their own control) carried.
	Killed.	Injured.	by Season-ticket Holders).	Killed.	Injured.
1874	98	1,613	477,840,411	l in 5,556,284	1 in 296,243
1875	17	1,212	506,975,234	1 in 29,882,073	1 in 418,296
1876	38	1,279	538,287,295	l in 14,165,455	1 in 420,865
1877	11	664	551,593,654	l in 50,144,876	1 in 830,713
1878	24	1,173	565,024,455	1 in 23,542,685	1 in 481,692
1879	*75	602	562,732,890	1 in 7,503,105	1 ir 934,772
1880	56	904	603,885,025	1 in 20,823,586	1 in 668 013
1881	23	987	622,160,000	1 in 27,050,435	
1882	18	803	654,838,295	1 in 36,379,905	1 in 815,489
1883	=	662	683,718,137	1 in 62,156,194	1 in 1,032,806
1884	31	864	694,991,860	l in 22,419.092	1 in 804,338
1885	9	436	697,213,031	1 in 116,202.171	1 in 1,599,112
1886	œ	615	725,584,390	1 in 90,698,049	_
1887	25	538	733,670,000	1 in 29,346,800	_
1888	11	594	742,830 000	1 in 67,530,000	
1889	+88	+1,016	775,183,073	1 in 8,808,875	
1890	18	496	817,744,046	1 in 45,430,224	ı,
1891	20	875	845,463,668	1 in 169,092,733	
1892	21	601	864,435,388	1 in 41,163,589	1 in 1,438,328

* Including 73 persons lost in the Tay Bridge disaster in the year 1879.

† Including 80 killed and 262 injured in a collision near Armagh.

Number of season tickets issued in 1892, 1,612,510.

STAMPS, TAXES, EXCISE DUTIES, &c.

STAMP DUTIES.

Affidavit, or Statutory Declaration, except declaration forming part of	£	s.	d.
an application for a patent	0	2	6
AGREEMENT, or Memorandum of Agreement, under hand only, not other-			
wise charged	0	0	6
APPRAISEMENT, or Valuation of any estate or effects where the amount			
of the appraisement shall not exceed £5	0	0	3
00	0	2	6
30 0 1 0	0	5	0
40	0		0
, , , , , , , , , , , , , , , , , , , ,	0		0
Exceeding £500	1	0	0
APPRENTICESHIP INDENTURES—On each instrument [By the Customs and Inland Revenue Act, 1890, there is no longer an ad valorem stamp duty upon an instrument of apprenticeship where there is a premium or consideration.]	0	2	6
Armorial Bearings	1	1	0
If used on any carriage	2	2	0
Bankers' Notes payable on demand and re-issuable—Not above £1 Not above £2	0 0 0	0 0 8	5 10 6
BILLS OF EXCHANGE AND PROMISSORY NOTES, of any kind whatsoever			
except bank notes—Not exceeding £5	0	0	1
Exceeding £5 and not exceeding £10	0	0	2
,, 10 ,, 25	0	0	3
,, 25 ,, 50	0	0	6
,, 50 ,, 75	0	0	9
,, 75 ,, 100	0	1	0
Every £100, and also for any fractional part of £100, of such amount	0	1	0
By Stamp Act of 1850 (33 and 34 Vict., c. 97), the distinction between inland and foreign bills of exchange was abolished.			
BILL OF LADING	0	0	6
CERTIFICATE—Of goods, &c., being duly entered inwards	0	4	0
Of birth, marriage, or death (certified copy of)	0	1	0
DRAFT, or Order, or Letter of Credit, for payment of any sum to bearer	-	_	-
or order, on demand	0	0	1
CHARTER PARTY	0	0	6
PASSPORT	0	0	6

STAMPS, TAXES, EXCISE DUTIES, ETC.

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Mungan	,, 77	•									
		ors, Great l license is re						••••	0	5	0
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oe grant	ieu io in	em jointry.	GOV	ERNM	ENT FEES.						
Food						2 an awa la	s:—				
r ees (on instru	\mathbf{ments} for \mathbf{o}	btaınıı	ng Pa	ents and 1	tenewar					
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STAMPS, TAXES, EXCISE DUTIES, ETC.

HOUSE DUTY.			
On inhabited houses hitherto paying at the rate of 6d. for every 20s. of the annual value:—			
If annual rent does not exceed £40 the rate is reduced to	0	0	2
If annual rent is £40 to £60	0	0	4
On inhabited houses hitherto paying at the rate of 9d.:-			
If annual rent does not exceed £40	0	0	3
If annual rent is £40 to £60	0	0	6
INCOME TAX.			
Incomes of £150 per annum (Schedules A C D and E) and upwards are taxed at the rate of 7d. in the £. Farmers in England (Schedule B), 3d. in the £; in Scotland and Ireland, 2½d. in the £. Exemption and Abatement.—Incomes less than £150 a year are exempt. On incomes amounting to £150 a year and less than £400 a year there is an abatement upon £120 of assessed income.			
AWARDS,			
Where the amount or value of the matter in dispute shall not			
exceed £5	0	0	3
Not exceeding £10	0	0	6
,, 20	0	1	0
,, 30	0	1	6
,, 40	0	2	0
,, 50	0	2	6
,, 100	0	5	0
.,, 200	-	10	0
,, 500	0	15	0
<u> </u>			
SERVANTS.			
For every male servant, without distinction of age	0	15	0
VARIOUS LICENSES AND DUTIES.			
	0	7	6
Dogs of any kind (penalty £5)	U	•	0
Game Licenses, if taken out after 31st July and before 1st November, to expire on the 31st July following	3	0	0
After 31st July, expire 31st October	2	0	0
After 31st October, expire 31st July	2	0	0
Gamekeepers	2	0	0
Game Dealer's License	2	0	0
Gun (License to carry)	0	10	0
(

	£	s.	đ
Hawkers and Pedlars, per year			
House Agents, letting furnished houses above £25 a year	2	0	0
Passenger Vessels, on board which liquors and tobacco are sold, yearly	5	0	0
Pawnbrokers	7	10	0
Plate Dealers selling 20zs. gold and 30zs. silver, and upwards		15	0
" under that weight		6	0
Retailers of Sweets			
Retailers of Wine, England and Ireland	2	10	0
,, (Grocers) Scotland			
Tobacco and Snuff, dealers in			
[A separate license is required for each place where sold.]			
Vinegar Makers	5	5	0

POSTAL REGULATIONS, SAVINGS BANKS, &c.

RATES OF POSTAGE.

To and from all parts of the United Kingdom, for prepaid letters :-

		1		0 ,	1 1		
			1d.		ng 6ozs., no	texceedi	ng 8ozs. 3d.
Exceeding	ng 1oz., ne	$_{ m t}$ exceedi	ng 20zs. 1 <u>1</u> d.	,,	8 ,,	,,	10 ,, 3½d.
,,	2 ,,	,,	4 ,, 2d.	,,	10 ,,	,,	12 ,, 4d.
,,	4 ,,	,,	6 ,, 2 1 d.	,,	12 ,,	,,	14 ,, 4½d.
,	4 43						

and so on at the rate of \(\frac{1}{2} \)d. for every additional 20zs.

A letter posted unpaid is chargeable on delivery with double postage, and a letter posted insufficiently paid is chargeable with double the deficiency.

No letter is to exceed one foot six inches in length, nine inches in width, and six inches in depth, unless it be sent to or from a Government Office.

A penny stamp is now issued which can be used either as a postage or receipt stamp.

INLAND BOOK AND CIRCULAR POST.

The Book Post rate is one halfpenny for every 20zs. or fraction of 20zs. Every Book Packet must be posted either without a cover or in a cover entirely open at the ends. No Book Packet may exceed 5lbs. in weight, or one foot six inches in length, nine inches in width, and six inches in depth, unless it be sent to or from a Government Office.

Any Book Packet which is found to contain a letter, or communication of the nature of a letter (not being a circular letter), or not wholly printed, or any enclosure sealed or in any way closed against inspection, or any other enclosure not allowed by the regulations of the Book Post, will be treated as a letter, and charged double the deficiency of the letter postage.

Circular Letters posted in covers entirely open at both ends, the whole or greater part of which are printed, engraved, lithographed, or type written, and which, according to the internal evidence, are being sent to several persons in identical terms, may be sent at book rate.

EXPRESS DELIVERY SERVICES.

Letters and Parcels are now accepted for Express Delivery at a large number of post-offices. For fees and conditions, see the "Postal Guide."

POSTAGE ON INLAND REGISTERED NEWSPAPERS.

Prepaid Rate.—On each Registered Newspaper, whether posted singly or in a packet, the postage when prepaid is one halfpenny; but a packet containing two or more Registered Newspapers is not chargeable with a higher rate of postage than would be chargeable on a Book Packet of the same weight—viz., one halfpenny for every 202s. or fraction of 202s.

POST CARDS.

Inland Post Cards are sold at the following prices:—Stout Cards, five for 3d.; ten for 6d. Thin Cards, ten for 5½d.

Reply Stout Cards are sold at ten for a shilling. Reply Thin Cards at ten for 11d. Smaller numbers in proportion.

Foreign Post Cards are sold at the rates of 1d., 11d., and 2d. each.

Foreign Reply Post Cards are sold at 2d., 3d., and 4d. each.

POST-OFFICE TELEGRAMS.

The charge for Telegrams throughout the United Kingdom is 6d. for the first twelve words, which must include addresses of sender and receiver. It is not, however, necessary to telegraph sender's address; and by this omission an average of seven words may be sent for 6d.

Free addresses are abolished; numbers in addresses are counted as one word. After the first twelve words the charge is one halfpenny a word.

For the rates charged for Foreign Telegrams, see the "Post-office Guide," published quarterly.

MONEY ORDERS FOR THE UNITED KINGDOM.

Money Orders a	re grante	ed in th	ne Unit	ed King	gdom	at the following	rates:-
For a sum	not excee	ding £	1				2d.
For a sum	exceeding	g £1 ar	id not e	exceedir	ng £2		3d.
,,	1,	£2	,,			• • • • • • • • • • • • • • • • • • • •	
**	11	£4	**			• • • • • • • • • • • • • • • • • • • •	
		£7	11	,,	£10		6d.

TELEGRAPHIC MONEY ORDERS.

Sums not	exceedir	ng £1	4d.
,,	,,	£2	6d.
,,	,,	£4	8d.
,,	,,	£7	10d.
,,	••	£10	1s.

In addition to the above, the person at whose request the Telegraphic Money Order is issued will be required to pay the ordinary telegraphic rates.

POSTAL ORDERS.

Postal Orders are issued at the following rates:—On those for 1/- and 1/6 the charge is $\frac{1}{2}$ d.; for 2/-, 2/6, 3/-, 3/6, 4/-, 4/6, 5/-, 7/6, 10/-, 10/6, the charge is 1d.; for 15/- and 20/-, $1\frac{1}{2}$ d.

INLAND PARCEL POST .- POSTING OF PARCELS.

Parcels must be handed in at a post-office counter, and must not be dropped into a letter box. If a parcel marked "Parcel Post" is not posted in accordance with this regulation it will be charged on delivery with a fine of 1d.

All Parcels must be prepaid by stamps affixed by the senders, and the rates of postage are as follows:—

							s.	a.	
For a Parce	l not exc	eeding 1lb.	in we	ight			0	3	
For a Parce	l exceedi	ng 1lb. in v	veight	and not	exceedir	g 2lbs.	0	$4\frac{1}{2}$	
"	,,	2lbs.	,,	,,	,,	3lbs.	0	6	
,,	,,	3lbs.	,,	,,	,,	4lbs.	0	$7\frac{1}{2}$	
,,	,,	4lbs.	"	,,	,,	5lbs.	0	9	
,,	,,	5lbs.	,,	1)	,,	6lbs.	0	$10\frac{1}{2}$	
,,	,,	6lbs.	,,	,,	,,	7lbs.	1	0	
,,	,,	7lbs.	,,	,,	,,	8lbs.	. 1	12	
,,	,,	8lbs.	,,	,,	,,	9lbs.	1	3	
,,	,,	91bs.	,,	,,	,,	10lbs.	1	41/2	
	••	10lbs.				11lbs.	1	6	

LIMITATION OF WEIGHT.

No Parcel exceeding 11lbs. in weight can be received for transmission.

LIMITATION OF SIZE.

No Parcel may exceed 3ft. 6in. in length, or 6ft. in length and girth combined. Thus, a Parcel 3ft. 6in. in length may not measure more than 2ft. 6in. in girth at its widest part; but a Parcel of shorter length, say 3ft., or 2ft. 8in., may measure respectively 3ft. or 3ft. 4in. in its widest girth.

INLAND PATTERN AND SAMPLE POST.

Trade Patterns and Samples of Merchandise may be sent between places in the United Kingdom at the following rates of postage:—

F'or	a Packet no	t exceeding	2ozs.	• • • •				 <u></u> }d.
"								
12	,,	more than	4ozs.	but	not	exceding	6ozs	1 <u>1</u> d.
			6ozs.				80zs	2d.

No Packet to exceed 80zs. in weight. Limits of dimension are—12ft. by 8ft. 4in. If either of these conditions be infringed the Packet will not be forwarded, but returned to the sender; similar conditions as to insufficiently paid postage obtain in connection with the above.

INLAND REGISTRATION AND COMPENSATION.

The Postmaster-General will (not in consequence of any legal liability, but voluntarily, and as an act of grace), subject to the rules hereinafter mentioned, give compensation up to a maximum limit of £50 for the loss and damage of Inland Registered Postal Packets of all kinds upon prepayment of a fee in addition to the postage. This fee either consists of or includes in each case the ordinary registration fee of 2d.; and the scale of fees and the respective limits of compensation are as follows:—Fee, 2d., Limit of Compensation, £5; 3d., £10; 4d., £15; 5d., £20; 6d., £25; 7d., £30; 8d., £35; 9d., £40; 10d., £45; 11d., £50.

POST-OFFICE SAVINGS BANKS.

No deposit of less than a shilling is received, nor any peuce, and not more than £30 in one year. No further deposit is allowed when the amount standing in depositor's name exceeds £200, exclusive of interest. Interest is allowed at the rate of 2½ per cent (or sixpence in the pound) per annum—that is at the rate of one halfpenny per pound per month. When the principal and interest reach to £200, no further interest is paid until the sum at the depositor's credit is reduced below that amount.

At every post-office in the United Kingdom forms for making small deposits are now issued gratuitously. Each form has twelve divisions, in each of which a penny postage stamp can be placed; when the twelve are filled in it is received at any Post-office Savings Bank as a shilling.

GOVERNMENT STOCK INVESTMENTS.

Through the Post Office Savings Bank, depositors may invest only in 2½ per Cent Stock, 2¾ per Cent Stock. 2¾ (1905) Stock, and Local 3 per Cent Loans. Investment to £300 a year only is allowed through the Post Office. The buying and selling price may be taken from the daily newspapers. Commission is about one-eighth—2s. 6d per cent—and all applications respecting Stock investments should be addressed to the Comptroller, Savings Bank Department, General Post Office, London, E.C.

BANK HOLIDAYS. LAW SITTINGS. ECLIPSES.

REGISTERS OF BIRTHS, MARRIAGES, AND DEATHS.

These are now kept at Somerset House, and may be searched on payment of the fee of one shilling. If a certified copy of any entry be required, the charge for that, in addition to the shilling for the search, is two shillings and sevenpence, which includes a penny for stamp duty. The registers contain an entry of births, deaths, and marriages since 1st July, 1837.

BANK HOLIDAYS, 1894.

ENGLAND.

Easter Monday	March	26
Whit Monday	May	14
First Monday in August	August	6
Boxing Day (Wednesday)	Decembe	er 26

SCOTLAND.

New Year's Day	January	1
Good Friday	March	23
First Monday in May	May	7
First Monday in August	August	6
Christmas Day	December	r 25

LAW SITTINGS, 1894.

	Begin.		End.
Hilary Sittings	January 11		March 21.
Easter "	April 3		May 11.
Trinity ,,	May 22	• • • • • • • • • • • • • • • • • • • •	Aug. 12.
Michael ·	October 24		Dec. 21.

ECLIPSES, 1894.

In this year there will be two Eclipses of the Sun and two of the Moon, and a Transit of Mercury across the Sun's disc:—

- 1.—A partial Eclipse of the Moon, March 21st, invisible at Greenwich.
- 2. An annular Eclipse of the Sun, April 6th, invisible at Greenwich.
- 3.—A partial Eclipse of the Moon, Sept. 15th, partly visible at Greenwich.
- 4.—A total Eclipse of the Sun, Sept. 29th, invisible at Greenwich.
- 5.—A Transit of Mercury across the Sun's disc, November 10th, partly visible at Greenwich.

MEMORANDA AS TO ACTS OF PARLIAMENT RESTRAINING EXPORTATION OF TOOLS &C. USED IN COTTON LINEN WOOLLEN AND SILK MANUFACTURES.

BY Act of 14 Geo. III. c. 75 being "An Act to prevent the Exportation to Foreign Parts of Utensils made use of in the Cotton Linen Woollen and Silk Manufactures of this Kingdom" persons were prohibited from exporting "Tools or Utensils" used in the Cotton Linen Woollen and Silk Manufactures of the Kingdom.

By Act of 21 Geo. III. c. 37 being an Act to explain and amend the last-mentioned Act it was enacted—

That if at any time after the 24th day of June 1781 any person or persons in Great Britain or Ireland shall upon any pretence whatsoever load or put on board or pack or cause or procure to be loaden put on board or packed in order to be loaded or put on board of any ship or vessel which shall not be bound directly to some port or place in Great Britain or Ireland or shall lade or cause or procure to be laden on board any boat or other vessel or shall bring or cause to be brought to any quay wharf or other place in order to be so laden or put on board any such ship or vessel any machine engine tool press paper utensil or implement whatsoever which now is or at any time or times hereafter shall or may be used in or proper for the preparing working pressing finishing or completing of the Woollen Cotton Linen or Silk Manufactures of this Kingdom or any or either of them or any other goods wherein Wool Cotton Linen or Silk or any or either of them are or is used or any part or parts of such machine engine tool press paper utensil or implement by what name or names soever the same shall be called or known; or any model or plan or models or plans of any such machine engine tool press paper utensil or implement or any part or parts thereof.

Any Justice might grant a warrant to seize the machines &c. and on conviction the person offending should forfeit the machines &c. and a sum of £200 and be imprisoned for twelve months without bail and until the forfeiture should be paid.

Penalties were also imposed on the Masters of Ships and Custom House Officers conniving at any offence and on persons making machines &c.

Table Showing Sums Payable in Foreign Currencies on Money Orders Issued in United Kingdom.

VALUE OF ENGLISH MONEY IN

	inglish Ioney.	Belgium, France, and Algeria, Italy and Seitzer- land.	Germany and Helipo- land,	Holland and Dutch East Indies.	Denmark, Iceland, Norway, and Danish West Indies.	Sweden.	Portugal, Azores, and Madeira.	Egypt.	United States, Canada, and Hawaii.
	8. d 0 1 0 2 0 3 0 0 4 0 0 1 1 1 0 0 2 2 0 0 4 0 0 1 1 1 1 0 0 0 1 1 1 1 1 1 1 1	Italy and Switzer land.	land. Signature of the property of the proper	Indies. 1	West Indies. 1000 15 0 22 0 30 0 37 0 45 0 52 0 60 0 68 0 75 0 83 0 1 81 2 72 3 63 4 53 5 44 6 35 7 26 8 16 9 7 9 98 10 89 11 79 12 70 13 61 14 52	Tangular Value of the control of the	Madeira. 10 30 50 70 90 110 130 150 170 190 200 450 680 910 1,140 1,370 1,590 1,820 2,050 2,280 2,510 2,740 2,970 3,190 3,420 3,650	. Here is a second of the seco	Hawaib. Hawaib. 10 10 10 10 10 10 10 10 10 10 10 10 10 1
0 0 0 1	17 0 18 0 19 0 0 0	22 60 23 90 25 20	17 34 18 36 19 38 20 40	10 15 10 75 11 35 11 95	15 42 16 33 17 24 18 15	15 40 16 31 17 21 18 12	3,880 4,110 4.340 4,570	82 35 87 30 92 25 97 20	4 12 4 38 4 62 4 87
2 3 4 5 6	0 0 0 0 0 0 0 0	75 60 100 80 126 0	40 80 61 20 81 60 102 0 122 40	23 90 35 85 47 80 59 75 71 70	36 30 54 45 72 60 90 75 108 90	36 24 54 36 72 48 90 60 108 72	$\begin{array}{c} 9,140 \\ 13,710 \\ 18,2 \times 0 \\ 22,850 \\ 27,420 \end{array}$	195 0 292 20 390 0 487 20 585 0	9 74 14 61 19 48 24 35 29 22
7 8 9 10	0 0	176 40 201 60 276 80	142 80 163 20 183 60 204 0	83 65 95 60 107 55 119 50	127 5 145 20 163 35 181 50	126 84 144 96 163 8 181 20	31,990 36,560 41,130 45,7·0	682 20 780 0 877 20 975 0	34 9 38 96 43 83 48 70

INDIA.—Amonots of Money Orders, issued in the United Kingdom on India, are pad in Rupees, Annas, and Pies; the Rupee being the standard of value in India. As, however, the value of the Rupee is subject to constant variation, no tables of conversion can be given. All Orders on India are issued in Sterling, and the equivalent in Rupees is settled by the Post-office at Bombay on arrival of the Advice List from London.

TABLE SHOWING SUMS PAYABLE IN ENGLISH MONEY ON MONEY ORDERS ISSUED IN FOREIGN COUNTRIES, &c.

Belgium and Switzer- land	France, Algeria, and Italy.	Germany and Hellgo- land.	Holland and Dutch East Indies.	Denmark, Iceland, Norway, and Danish West Indies.	Sweden.	Portugal, Azores, and Madeira.	Egypt.	United States, Canada, and Hawaii.	English Money	
Hranes. S. C. Cents. C. Cents. C.	.son B. Frances. 11 0 11 0 21 0 53 0 63 0 74 0 84 0 95	Marks. 0 0 0 0 Marks. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Floring. 10. 60 Floring. 11. 0 6 Floring. 12. 0 76 Floring. 13. 0 46 Floring.	0 16 0 23 0 31 0 38 0 46 0 54 0 69	8 0 16 0 8 0 0 16 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 40 60 80 100 120 140 160 180	. Handrey Branches. 1	0 Dollars 0 0 Dollars 0 0 0 Dollars 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	d. 1 2 3 4 5 6 7 8 9
1 6 1 16 1 27 2 53 3 80 5 6 6 33 7 59 8 86	1 5 1 16 1 26 2 52 3 78 5 4 6 30 7 56 8 82	0 86 0 94 1 3 2 5 3 8 4 10 5 13 6 15 7 18	0 51 0 56 0 61 1 22 1 83 2 44 3 65 4 26	0 76 0 84 0 91 1 82 2 73 3 64 4 55 5 46 6 37	0 76 0 84 0 91 1 82 2 72 3 63 4 53 5 44 6 35	200 210 230 460 690 920 1,150 1,380 1,600	4 2 4 18 4 35 9 30 14 25 19 20 24 15 29 10 34 5	0 21 0 23 0 25 0 49 0 74 0 98 1 22 1 47 1 71	0 0 1 0 1 0 2 0 3 0 4 0 5 0 6	10 11 0 0 0 0 0 0
10 12 11 39 12 65 13 92 15 18 16 45 17 71 18 98 20 24	10 8 11 34 12 60 13 86 15 12 16 38 17 64 18 90 20 16	8 20 9 23 10 25 11 28 12 30 13 33 14 35 15 38 16 40	4 87 5 48 6 8 6 69 7 30 7 91 8 52 9 12 9 73	7 28 8 19 9 10 10 1 10 92 11 83 12 74 13 65 14 56	7 25 8 16 9 6 9 97 10 88 11 78 12 69 13 59 14 50	1,830 2,060 2,290 2,520 2,750 2,980 3,200 3,430 3,660	39 0 43 35 48 30 53 25 58 20 63 15 68 10 73 5 78 0	1 95 2 20 2 44 2 68 2 93 3 17 3 41 3 66 3 90	0 8 0 9 0 10 0 11 0 12 0 13 0 14 0 15 0 16	0 0 0 0 0 0 0
21 51 22 77 24 4 25 30 50 60 75 90 101 20 126 50 151 80	21 42 22 68 23 94 25 20 50 40 75 60 100 80 126 0	17 43 18 45 19 48 20 50 41 0 61 50 82 0 102 50	10 34 10 95 11 56 12 16 24 32 36 48 48 64 60 80	15 47 16 38 17 29 18 20 36 40 54 60 72 80 91 0 109 20	15 41 16 31 17 21 18 12 36 24 54 36 72 48 90 60	3,890 4,120 4,350 4,570 9,140 13,710 18,280 22,850	82 35 87 30 92 25 97 20 195 0 292 20 390 0 487 20 585 0	4 14 4 39 4 63 4 87 9 74 14 61 19 48 24 35 29 22	2 0 3 0 4 0 5 0	0 0 0 0 0 0 0
151 80 177 10 202 40 227 70 253 0	151 20 176 411 201 60 226 80 252 0	123 0 143 50 164 0 184 50 205 0	72 96 85 12 97 28 109 44 121 60	109 20 127 40 145 60 163 80 182 90	108 72 126 84 144 96 163 8 181 20	27,420 31,990 36,560 41,+30 45,700	585 0 682 20 780 0 877 20 975 0	34 9 38 96 43 83 48 70	$\begin{bmatrix} 7 & 0 \\ 8 & 0 \\ 9 & 0 \end{bmatrix}$	0 0 0

Nore.—In calculating amounts payable in the United Kingdom, it must be understood that the Foreign Offices of Exchange reserve to themselves the power of dealing with fractions of a penny as they may deem most convenient. For example, an Order issued in Denmark for 1 Kroner may be credited to this country either as 1s. 1d. or 1s. 2d. An Order issued in Switzerland for 53 Francs may be credited either as £2. 1s. 10d. or £2 1s. 11d.

THE TIME ALL OVER THE WORLD.

When the clock at Greenwich points to Noon, the time at the various places below is as follows:—

н. м.			M.
Boston, U.S 7 18 a.m.	Copenhagen	12	50 p.m.
Dublin	Florence	12	45 p.m.
Edinburgh 11 47 a.m.	Jerusalem		
Glasgow 11 43 a.m.	Madras		
Lisbon 11 43 a.m.	Malta		
Madrid 11 45 a.m.	Melbourne, Australia		
New York, U.S 7 14 a.m.	Moscow		
Penzance11 38 a.m.	Munich		
Philadelphia, U.S 6 59 a.m.	Paris		
Quebec 7 15 a.m.	Pekin		
Adelaide, Australia 9 11 p.m.	Prague		
Amsterdam 12 19 p.m.	Rome		
Athens 1 35 p.m.	Rotterdam		
Berlin 12 54 p.m.	St. Petersburg		
Berne 12 30 p.m.	Suez		
Bombay 4 52 p.m.	Sydney, Australia		
Brussels 12 17 p.m.	Stockholm		
Calcutta 5 54 p.m.	Stuttgardt		
Capetown 1 14 p.m.	Vienna		
Constantinople 1 56 p.m.			10

Hence, by a little calculation, the time for those places at any hour of our day may be ascertained. At places east of London the apparent time is later, and west of London, earlier; for uniformity sake, however, Greenwich time is kept at all railways in Great Britain and Ireland.

TOTAL ANNUAL VALUE OF PROPERTY AND INCOME ASSESSED, 1875–92.

Year.	England.	Scotland.	Ireland.	United Kingdom.	Year.
	£	£	£	£	
1875	481,774,580	53,934,528	35,347,059	571,056,167	1875
1877	480,425,213	54,441,576	35,464,600	570,331,389	1877
1878	486,698,836	55,712,709	35,929,649	578,294,971	1878
1879	485,939,056	55,897,204	36,210,037	578,046,297	1879
1880	485,676,370	55,079,954	36,140,577	576,896,901	1880
1881	493,583,819	55,530,028	36,110,043	585,223,890	1881
1882	507,644,153	57,607,470	36,199,354	601,450,977	1882
1883	516,948,272	59,406,708	36,481,078	612,836,058	1883
1884	530,538,379	61,117,685	36,854,135	628,510,199	1884
1885	533,429,560	61,125,422	36,912,150	631,467,132	1885
1886	533,038,774	60,057,933	36,758,915	629,855,622	1886
1887	535,040,455	57,910,114	36,447,393	629,397,962	1887
1888	542,450,177	57,145,262	36,559,254	636,154 693	1888
1889	550,575,255	57,834,226	36,749,208	645,158,689	1889
1890	572,128,525	60,030,510	37,199,578	669,358,613	1890
1891	597,265,843	63,387,529	37,754,177	698,407,549	1891
1892	607,748,110	65.023,424	37.981,150	710,752,684	1892

BAROMETER INSTRUCTIONS.

COMPILED BY THE LATE ADMIRAL FITZROY, F.R.S.

The barometer should be set regularly by a duly-authorised person about sunrise, noon, and sunset.

The words on scales of barometers should not be so much regarded for weather indications as the rising of falling of the mercury; for if it stand at Changeable (29.50) and then rise towards fair (30.00) it presages a change of wind or weather, though not so great as if the mercury had risen higher; and, on the contrary, if the mercury stand above fair and then fall it presages a change, though not to so great a degree as if it had stood lower; beside which, the direction and force of wind are not in any way noticed.

It is not from the point at which the mercury may stand that we are alone to form a judgment of the state of the weather, but from its rising or falling; and from the movements of immediately preceding days as well as hours, keeping in mind effects of change of direction, and dryness or moisture, as well as alteration of force or strength of wind.

It should always be remembered that the state of the air foretells coming weather rather than shows the weather that is present—(an invaluable fact too often overlooked)—that the longer the time between the signs and the change foretold by them the longer such altered weather will last; and, on the contrary, the less the time between a warning and a change the shorter will be the continuance of such foretold weather.

If the barometer has been about its ordinary height, say near 30 inches at the sea-level, and is steady on rising, while the thermometer falls and dampness becomes less, north-westerly, north-easterly wind, or less wind, less rain or snow may be expected.

· On the contrary, if a fall takes place with a rising thermometer and increased dampness, wind and rain may be expected from the south-eastward, southward, or south-westward. A fall with low thermometer foretells snow.

When the barometer is rather below its ordinary height, say down to near 29½ inches (at sea-level), a rise foretells less wind, or a change in its direction towards the northward, or less wet; but when it has been very low, about 29 inches, the first rising usually precedes or indicates strong wind—at times heavy squalls—from the north-westward, northward, or north-eastward, AFTER which violence a gradually rising glass foretells improving weather; if the thermometer falls, but if the warmth continues, probably the wind will back (shift against the sun's course), and more southerly or south-westerly wind will follow, especially if the barometer rise is sudden.

The most dangerous shifts of wind, or the HEAVIEST northerly gales, happen soon after the barometer first rises from a very low point; or if the wind veers GRADUALLY, at some time afterwards.

BAROMETER INSTRUCTIONS.

Indications of approaching change of weather and the direction and force of winds are shown less by the height of the barometer than by its falling or rising. Nevertheless, a height of more than 30 (30·00) inches (at the level of the sea) is indicative of fine weather and MODERATE winds, except from east to north, OCCASIONALLY.

A rapid rise of the barometer indicates unsettled weather, a slow movement the contrary; as likewise a STEADY barometer, when continued and with dryness, foretells very fine weather.

A rapid and considerable fall is a sign of stormy weather, and rain or snow. Alternate rising and sinking indicates unsettled or threatening weather.

The greatest depressions of the barometer are with gales from S.E., S., or S.W.; the greatest deviations, with wind from N.W., N., or N.E., or with calm.

A sudden fall of the barometer, with a westerly wind, is sometimes followed by a violent storm from N.W., N., or N.E.

If a gale sets in from the E. or S.E., and the wind veers by the south, the barometer will continue falling until the wind is near a marked change, when a lull MAY occur; after which the gale will soon be renewed, perhaps suddenly and violently, and the veering of the wind towards the N.W., N., or N:E. will be indicated by a rising of the barometer, with a fall of the thermometer.

After very warm and calm weather a storm or squall, with rain, may follow; likewise at any time when the atmosphere is HEATED much above the USUAL temperature of the season.

To know the state of the air not only the barometer and thermometer, but appearances of the sky should be vigilantly watched.

SIGNS OF WEATHER.

Whether clear or cloudy, a rosy sky at sunset presages fine weather; a red sky in the morning, bad weather, or much wind, perhaps rain; a grey sky in the morning, fine weather; a high dawn, wind; a low dawn, fair weather.*

Soft-looking or delicate clouds foretell fine weather, with moderate or light breezes; hard-edged, oily-looking clouds, wind. A dark, gloomy blue sky is windy, but a light, bright blue sky indicates fine weather. Generally, the softer the clouds look, the less wind (but perhaps more rain) may be expected; and the harder, more "greasy," rolled, tufted, or ragged, the stronger the coming wind will prove. Also a bright yellow sky at sunset presages wind; a pale yellow, wet; and thus, by the prevalence of red, yellow, or grey tints, the coming weather may be foretold very nearly—indeed, if aided by instruments, almost exactly.

^{*} A high dawn is when the first indications of daylight are seen above a bank of clouds. A low dawn is when the day breaks on or near the horizon, the first streaks of light being very low down.

BAROMETER INSTRUCTIONS.

Small inky-looking clouds foretell rain; light scud clouds driving across heavy masses show wind and rain, but if alone may indicate wind only.

High upper clouds crossing the sun, moon, or stars in a direction different from that of the lower clouds, or the wind then felt below, foretell a change of wind.

After fine, clear weather, the first signs in the sky of a coming change are usually light streaks, curls, wisps or mottled patches of white distant clouds, which increase, and are followed by an overcasting of murky vapour that grows into cloudiness. This appearance, more or less oily or watery as wind or rain will prevail, is an infallible sign.

Light, delicate, quiet tints or colours, with soft, undefined forms of clouds, indicate and accompany fine weather; but gaudy or unusual hues, with hard, definitely-outlined clouds, foretell rain, and probably strong wind.

When sea-birds fly out early and far to seaward, moderate wind and fair weather may be expected. When they hang about the land, or over it, sometimes flying inland, expect a strong wind, with stormy weather. As many creatures beside birds are affected by the approach of rain or wind, such indications should not be slighted by an observer who wishes to foresee weather.

Remarkable clearness of atmosphere near the horizon, distant objects such as hills unusually visible, or raised (by refraction),† and what is called a "good HEARING day," may be mentioned among signs of wet, if not wind, to be expected.

More than usual twinkling of the stars, indistinctness or apparent multiplication of the moon's horns, haloes, "wind-dogs" (fragments or pieces of rainbows, sometimes called "wind-galls") seen on detached clouds, and the rainbow, are more or less significant of increasing wind, if not approaching rain with or without wind.

Lastly, the dryness or dampness of the air, and its temperature (for the season), should always be considered with other indications of change or continuance of wind and weather.

On barometer scales the following contractions may be useful:-

When the wind shifts against the sun, Trust it not, for back it will run.
r.) Trust it not, for back it will run.
·
First rise after very low
Indicates a stronger blow.
Long foretold - long last;
Short notice - soon past.
OM .
)

METEOROLOGICAL TABLE.

This Table is used to suggest what kind of weather will probably follow the changes of the Moon.

Time of Nev	v or of Fu	Time of New or of Full Moon, or .	Weather likely to	Weather likely to follow during the Quarter.
of entering the First or Last Quarter.	e First or I	ast Quarter.	IN SUMMER.	IN WINTER.
12 at Noon	to 2 After	noon	12 at Noon to 9 Afternoon Vary rainy	Snow or rain.
2 Afternoon to 4	to 4		Changeable	
4 ,,			Fair	Fair.
" 9	to 10		(Fair, if wind North-West	Fair, frosty, if North or North-East. Rain or snow, if South or South-West.
10 ,,	to 12 Mid	to 12 Midnight	Fair Fair and frosty.	Fair and frosty.
12 Midnight	to 2 Morn	12 Midnight to 2 Morning	Fair	Hard frost, unless South or West.
2 Morning to 4	to 4			Snow and stormy.
4 ,,	to 6	:	Rain	Snow and stormy.
" 9	to 8 .	: :	Wind and rain Stormy.	Stormy.
° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	to 10		Changeable	(Cold rain, if wind West. Snow, if East.
10 ,,	to 12 Noon		Frequent showers Gold, with high wind	Cold, with high wind.

REMARKS.

The nearer the time of the Moon's entrance, at full, change, and quarters, is to midnight, that is, within two hours before and after midnight, the fairer the weather will be; but the nearer to noon, the less fair. Also the Moon's entrance, at full, change, and quarters, during six of the afternoon hours, namely, from four to ten, may be followed by fair weather; but this is mostly The same entrance during all the hours after midnight is, with the exception of the two first, unfavourable to fair weather. dependent upon the wind.

MONTHLY METEOROLOGICAL TABLE FOR THE YEAR ENDING SEPTEMBER 30, 1893.

(From Official Sources.)

ROYAL OBSERVATORY, GREENWICH,-Height of Station above Sea Level, 159 Febt.

YFAR 1892-93.	PRESSURE OF ATMC SPHERE IN MONTH.	PRESENTE OF ATMO- SPHERE IN MONTH.		TEMPEF	ATURE O	TEMPERATURE OF AIR IN MONTH.	Month.		MEAN TEMPERATURE.	AN ATURE.	MEAN I	MEAN READING OF THERMOMETER.	R,	RAIN.
							MEAN				Maximum	Maximum Minimum	Number	Amount
Month.	Mean.	Range.	Highest.	Highest. Lowest.	Range.	of all Highest.	of all Lowest.	Daily Range.	Air.	Dew Point.	in Rays of Sun.	on Grass.		
1892.	In.	In.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Days.	In.
October	29.545	1.019	61.9	27.4	34.5	53.1	39.1	14.0	45.4	41.8	6-08	32.1	22	3.88
November	29.881	0.814	6.09	31.2	29.7	50.0	39.5	10.5	44.9	42.7	61.0	35.7	18	2.21
December	29.816	0.986	54.7	17.6	37.1	40.8	35.0	8.8	36.7	32.9	45.3	28.5	11	1.14
1893.														
January	29.885	0.690	52.5	13.9	38.3	39.3	31.2	8.1	35.4	32.1	45.7	28-4	15	1.45
February	29.542	1.731	58.8	23.1	35.7	47.2	35.7	11.5	41.1	37.3	€99	32.4	22	2.72
March	29-964	0.880	69.3	24.5	45.1	56-9	35.9	21.0	46.2	37-9	65.5	30.9	7	0.43
April	29-990	0.615	0.08	30.5	49.8	64.2	9.68	24.6	51.4	40.5	109.0	33.9	က	0.12
May	29.888	0.914	80.4	38.0	42.4	9.04	46.1	24.5	2.1.2	46.1	121.9	38.5	6	0.53
June	29-838	1.093	91.0	87.3	53.7	75.3	50.1	25.2	8.19	49.5	126.2	43.2	00	0.82
July	29-732	0.747	6.68	47.1	42.8	74.3	54.4	19-9	63.1	53.5	121.0	48.9	18	3-33
August	29.861	0.681	95·1	43.2	51.9	7.77	55.3	22.5	65.5	54.8	126.8	47.9	11	1.25
September	29-698	1.034	85.8	37.5	45.3	2.19	48.5	19.5	57.1	48.7	109.9	41.1	14	1.29

MONTHLY METEOROLOGICAL TABLE FOR THE YEAR ENDING SEPTEMBER 30, 1893.

(From Official Sources.)

THE OBSERVATORY, LIVERPOOL.—Height of Station above Sea Level, 197 Feet.

																	_
RAIN.	Amonnt	Col- lected.	In.	6.59	1.87	2.30		1.21	2.85	0.53	0.49	1.69	1.55	3.14	1.99	3.75	
RA	Number	of days it fell.	Days.	24	19	16		19	21	6	4	15	10	16	16	19	-
EADING COMETER.	Minimum	on Grass.	• Deg.	30-9	32.7	23.3		35.7	29-9	28.8	31.8	40.4	43.0	47.1	47.8	41.4	
MEAN READING OF THERMOMETER.	Maximum	in Rays of Sun.	* Deg.	98.1	2.69	58.3		9.79	72.1	94.6	110.8	114.9	122.3	127.4	128.5	113.0	
ATURE.		Dew Point.	Deg.	41.4	40.3	34.3		34.7	36.9	87.3	45.0	45.7	49.4	8.09	54.5	-48.7	
Mean Temperature.		Air.	Deg.	45.0	44.4	9.18		37.1	40.7	45.4	49.5	54.4	59.1	2.09	65.3	55.4	
		Daily Range.	Deg.	8.9	8.5	9.8		7.4	8.6	12.8	16.9	13.6	14.3	13.0	6-11	10.4	
Month.	MEAN	of all Lowest.	Deg.	41.6	40.7	33.5		33.3	36.5	39.6	42.7	48.6	53.6	9.22	9.19	21.0	
TEMPERATURE OF AIR IN MONTH.		of all Highest.	Deg.	50.5	48.9	42.1		40.7	46.3	52.4	59.6	62.2	6-19	9.89	69.5	61.4	
LATURE OI		Range.	Deg.	28.0	26.3	31.1		33.1	27.7	33.4	40.8	32.7	37.1	35.0	9.98	6-62	
Темрен		Highest, Lowest.	Deg.	29.8	30.5	22.0		17.7	29.5	30.8	34.3	42.3	47.9	51.8	48.0	41.3	
		Highest.	Deg.	8.13	20.2	53.1		8.09	57.5	64.2	75.1	75.0	85.0	83.8	84.6	71.2	
OF ATMO-		Range.	In.	1.293	0.816	866-0		1.086	1.660	1.104	0.714	0.962	1.116	0.727	0.899	1.222	
PRESSURE OF ATMO- SPHERE IN MONTH.		Mean.	In.	29.483	29-763	29.718		29.819	29-407	29.856	29-950	29-829	29-776	29-663	29.764	59-609	
YEAR 1892-93.		Month.	1892.	October	November	December	. 1893.	January	February	March	April	May	June	July	August	September	

* The Mean temperature inserted in these two columns is taken from the Feturus of Stonyhurst College, Lancashire, as they were not supplied by The height of station above sea level is 363 feet.

MONTHLY METEOROLOGICAL TABLE FOR THE YEAR ENDING SEPTEMBER 30, 1893.

(From Official Sources.)

THE OBSERVATORY, CARLISLE, SPITAL (CUMBERLAND).—Height of Station above Sea Level, 114 Feet.

YEAR 1892-93.	PRESSURE SPHERE I	PRESSURE OF ATMO- SPHERE IN MONTH.		TEMPE	LATURE O	TEMPERATURE OF AIR IN MONTH.	Month.		MEAN TEMPERATURE.	AN ATURE.	MEAN I	MEAN READING OF THERMOMETER.	RA	RAIN.
							MEAN				Maximum	Minimum	Number	Amount
Month	Mean.	Range.	Highest, Lowest.	Lowest.	Range.	of all Highest.	of all Lowest.	Daily Range.	Air.	Dew Point.	in Rays of Sun.			
1892.	In.	In.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Days.	In.
October	29-567	1.298	60.5	21.0	39.5	51.3	10.1	11.2	45.5	39.8	68.1	32.4	19	3.68
November	29-798	0.880	57.5	28.3	29.3	49.0	87.8	11.2	43.1	37.6	57.1	30.7	18	1.98
December	29-750	1.062	52.7	1.0	53.7	40.4	29.4	11.5	35.4	32.1	48.3	22.0	15	1.54
1893.														
January	29.875	1.122	53.8	17.2	99.96	41.3	33.4	7.9	9.78	34.3	49.7	27.1	6	1.20
February	29.444	1.688	8.12	8-92	31.0	46.5	38.5	8.3	41.5	35.6	65.1	31.1	22	3.86
March	29.887	1.132	65.5	26.2	39-3	52.7	36.4	16.3	44.5	40.9	83.6	31-1	6	1.38
April	30.006	808.0	77.4	24.8	52.6	62.3	37.9	54.4	49.7	41.5	95.3	33.2	6	0.92
May	29-892	1.036	8.92	32.7	44.1	65.3	45.5	20.1	54.3	46.4	2.66	40.3	11	1.76
June	29-831	1.130	85.8	38.4	47.4	71.8	48.0	23.8	59.1	48.7	109-9	45.2	11	2.54
July	29.712	0.834	87.4	44.5	42.9	71.2	51.6	19.6	60.4	51.5	112.4	47.8	18	2.76
August	29-797	1.016	83.0	35.8	47.2	72.5	52.3	19-9	61.8	53.4	112.6	47.3	19	3.88
September	29.625	1.314	73.8	30.5	43.3	63.1	45.5	17.9	54.0	46.7	95.2	40.5	19	3.12

REMARKS ON THE WEATHER.

(From Official Sources.)

OCTOBER, 1892.—In this month the weather was very cold till towards the end. when there were three or four warm days, with frequent rain throughout the month. The temperature of the air was constantly below the average to the 27th, the amount exceeding 10° on some days. On every day excepting the 11th, 12th, and 17th to 20th days the atmospheric pressure was below the average. The rainfall was above the average; the fall was especially heavy on the 13th, 14th, 15th, and 16th in Yorkshire, where there were great floods, causing farmers considerable loss, and in many of the towns hundreds of houses were flooded.

NOVEMBER.—The weather was mild and damp, with very little sunshine. Excepting from the 18th to the 25th the temperature of the air was generally above the average. Till the 6th the atmospheric pressure was below its average, and from the 12th to the 16th, and above on other days. Small quantities of rain fell frequently.

DECEMBER.—This month was dry, cold, and foggy. The temperature of the air was mild, and from the 15th to the 21st was above the average; it was below the average till the 14th, and from the 4th to the 10th particularly so. Frost set in with severity on the 22nd, continuing to the end of the month for these ten days the average deficiency of temperature being 9°·1. On the 27th and 28th the lowest temperature in the month occurred. From the 3rd to the 13th, and from the 29th to the 31st the atmospheric pressure was generally below the average, and on all other days generally above. The rainfall was below the average, and during the latter half of the month very little rain fell.

January 1893. – During the first week the weather was very cold, and till the 18th, with snow and rain frequent, but from the 19th was warm, with fogs. Till the 18th the temperature of the air was constantly below its average, and on the 3rd, 4th, and 5th days particularly so. The mean temperature on the 2nd, 3rd, 4th, and 5th at Blackheath were as much as 13° ·1, 12° ·2, 15° ·5, and 16° ·8 below their averages, and to the 18th the mean daily deficiency of temperature was as much as 63° ; and for the twenty-eight days beginning December 22nd and ending January 18th was 72° . Occasionally the atmospheric pressure was a little below the average, but was generally above. At some few places the fall of rain was a little above the average, but at most places a little below.

FEBRUARY. - The weather was unsettled and warm, and on two days out of three rain fell at nearly all the stations. From the 1st to the 3rd and from the 7th to the 21st the temperature of the air was above its average, and below it on the other days. Till the 7th the atmospheric pressure was generally above its

REMARKS ON THE WEATHER.

average, and below from the 8th, and from the 20th to the 27th particularly so, when the departures below the average mean daily pressures were 0.44 in., 1.29 in., 0.98 in., 0.55 in., 0.70 in., 0.73 in., 0.99 in, and 0.68 in. in succession. The mean pressure for the month was lower than in any February back to 1879, and the fall of rain was above the average.

March.—In this month the weather was exceptionally fine, warm, and dry, and with the exception of the short period from the 17th to the 21st was above the average, and to the 16th the average mean daily excess was 5½°, and from the 22nd to the end of the month was 3°. The mean temperature of the month was 46°·2, and we must go back to the year 1859 for a March so warm, there being but four other instances back to 1771. With the exception of the 1st and 2nd, and from the 12th to the 17th, the atmospheric pressure was above the average. The mean pressure for the month was higher than in any March back to 1874. The rainfall was remarkably small, 0·4 in. only at Blackheath, and not since 1854 have we had a March with so small a rainfall.

APRIL.—This month was remarkable for its small rainfall, an unusual amount of sunshine, and fineness generally. On every day excepting the 9th, 11th, 12th, 13th, 14th, 17th, and 30th the temperature of the air was above its average, and the temperature after the middle of the month was that of summer. On nearly every day the atmospheric pressure was above its average, and the mean pressure was higher than in April since 1861. At Blackheath the fall of rain was only 0.09 in., and for so small a fall of rain we must go back to 1855, namely 0.1 in. In 1840 and 1817 the fall was also 0.1 in. In March and April together the fall of rain was 0.49 in., and we have to go back to 1840, March and April, for so small a fall, when the amount was 0.4 in. In the southern and midland counties particularly the consequent drought became very serious.

Max.—Remarkably fine and dry weather prevailed, the exceptional weather of the two preceding months continuing. On every day till the 29th, with the exception of the 7th and 8th, the temperature of the air was above its average. On every day till the 14th, and from the 25th, the atmospheric pressure was above its average. The fall of rain was small, none falling at Blackheath till the 16th, then a little fell daily to the 23rd and on the 29th. The fall was 0.52 in. in the month, and in the three months, March, April, and May, it was 1 in., giving a daily average of only about a hundredth of an inch. The drought was general, but was most severely experienced at the southern stations, where the falls were less than half of those at the northern, the intervals without rain being about twice as long.

JUNE.—During this month the weather was very fine and dry. The temperature of the air was generally above its average, but for two or three days together was occasionally below. About the middle of the month it was very warm. It was 90° or near 90° at southern and midland stations on the 19th, and about 85°

REMARKS ON THE WEATHER.

at northern stations. From the 4th to the 12th and on the 16th, 17th, 18th, and 30th days the atmospheric pressure was above its average, and below on all other days. At Blackheath the fall of rain was small; on the 7th and 20th a little fell, amounting to 0·17 in., then from the 23rd to the 28th rain fell daily. On March 5th the drought began, and continued to June 22nd. In the four months, March, April, May, and June, the fall of rain was 1·90 in., being just the half of that which fell in the same four months in the year 1837. Hay crops were deficient everywhere, but in the north better than in the south, where they were very light. In some places the crop quite failed.

July.— In the early part of this month the weather was very warm, and throughout was generally fine and warm. Till the 11th, and from the 20th to the 25th, the temperature of the air was above its average, and from the 12th to the 19th and from the 26th below the average. With the exception of the first three days, and three days towards the end of the month, the atmospheric pressure was below the average. The rainfall was generally small, but it slightly exceeded the average at a few stations. The want of water was severely felt on the whole, and fully a month earlier than usual harvest work began generally.

August.— Weather was very warm, fine, and dry, with a remarkably hot period extending from the 8th to the 18th. Till the 7th, and from the 23rd to the 29th, the temperature of the air was a little below the average, and above on all other days. From the 6th to the 17th, and from the 24th, the atmospheric pressure was above its average; below till the 5th, and from the 18th to the 23rd. Want of water was experienced in many places, the fall of rain being below the average, and the grass fields were much dried up.

September.— During the first half of the month particularly the weather was very fine and dry. Till the 8th the temperature of the air was below th average; from the 9th to the 13th below; again above from the 14th to the 20th; below from the 21st to the 26th, with slight frost at night; and slightly above to the end of the month. Till the 5th, and from the 11th to the 15th, the atmospheric pressure was generally higher than the average, and on the other days of the month mostly lower. The fall of rain was very variable, at most of the stations being below the average, and fully up to it at a few. At some stations it fell on eight to ten days only; it fell on twenty-three days at Llandudno, and on twenty days at Guernsey and Stonyhurst. The want of water was severely felt at many places, ponds and wells being dried up.

WEATHER FORECASTS.

Below we give five tables taken from the report of the Meteorological Office for the year ending March 31st, 1893. The weather forecasts are prepared three times a day—at 11 a.m., 3-30 p.m., and 8-30 p.m.—the forecasts prepared at 11 a.m. on information derived from the 8 a.m. reports, refer to the probable weather between noon on the day of issue and noon of the following day.

The 3-30 p.m. forecasts are employed for storm warnings only, excepting in the hay harvest season for which see page 624. The 8-30 p.m. forecasts are specially prepared for the morning papers, but all forecasts are available for the information of any one applying at the office, 63, Victoria Street, London. The second, fourth, and fifth tables show the success that has attended the forecasting of the weather of the British Isles.

TABLE 1.

SUMMARY OF RESULTS OF 8-30 P.M. FORECASTS, 1892-93.

		Perce	NTAGES.		Total per-
DISTRICTS.	Complete Success.	Partial* Success.	Partial* Failure.	Total Failure.	centage of Success.
Scotland, N	45	36	13	6	81
" E	47	31	16	6	78
England, N.E	49	32	15	4	81
" E	47	34	15	4	81
Midland Counties	47	31	16	6	78
England, S	48	35	14	3	83
Scotland, W	41	32	17	10	73
England, N.W	43	34	14	9	77
" S.W	49	31	12	8	80
Ireland, N	46	32	13	9	78
" S		34	15	10	75
Summary	46	33	14	7	79

^{*} Note, "partial" implies "more than half."

TABLE 2.

The following table shows for each year from 1883 to 1892, inclusive, the percentages of complete and partial success of the Forecasts issued at 8-30 p.m. for the whole year.

Percentages of Results of Forecasts for the whole of the British Isles.

YEAR.	Complete Success.	Partial, i.e., more than Half Success.	Total Success.
1883	48	33	81
1884	50	31	81
1885	50	34	84
1886	49	31	80
1887	52	32	84
1888	51	31	82
1889	49	32	81
1890	50	32	82
1891	50	30	80
1892	46	33	79
Average	49	32	81

TABLE 3.
SUMMARY OF RESULTS.—HAY HARVEST FORECASTS 1892.

		Pi	ERCE	NTAG	ÉS	of
DISTRICTS.	Names of Stations.	Complete Success.	Partial Success.	Partial Failure.	Total Failure.	Total Percentage of Success.
Scotland, N	Rothamstead and Thorpe	61 58 46 50 44 61 63 61 60 58 56	28 20 35 32 38 30 29 35 33 30 38	11 16 14 15 15 8 5 4 7 9 6	6 5 3 1 3 	89 78 81 82 82 91 96 93 88 94
	Mean for all districts	56	32	10	2	88

These figures show that the results for the forecasts for 1892 reached a total percentage of success of 88, being one lower than was recorded in the three preceding years.

TABLE 4.

RETURN OF THE RESULT OF THE COMPARISON BETWEEN THE WARNINGS ISSUED AND THE WEATHER EXPERIENCED IN 1892.

COASTS.	Total No. of Orders to hoist and repetitions	Warnings justified by subsequent Gales. Force 8 and upwards.	Warnings justified by subsequent strong Winds. Forces 6 and 7.	Warnings not justified by subsequent Weather.	Warnings late. Force 9 Preached at two Stations before issue.	Warnings partially late Force 9 reached at one Station before issue.	Storms for which no Warning was issued.
Scotland, N.E	46	30	14	2			Jan. 29-30; March
" E	30	7	17	6			16; Apr.22; Oct.7. Feb. 1.
" N.W	49	29	14	3		3	Oct. 7.
" W	43	24	15	4		-	OC5. 1.
Ireland, S.W.	45	26	15		i	i	March 16; Oct. 7.
" N.W	49	36	10	5	1	-	March 10, Oct. 7.
Irish Sea	39	31	6	$\frac{2}{2}$		i	Feb.15; Aug.14-15.
St. George's Chan'el	30	13	14	2	i		Feb.15; Aug.14-15.
Bristol Channel	32	20	9	1	i	i	Ang 20. Oct 20
England, S.W	$\frac{32}{32}$	22	8	1	i		Aug. 30; Oct. 29.
	23	12	10	_	1	i	Tou 5
" S		11		٠.;		1	Jan. 7.
TO	23		8	4		• • •	Dec. 9.
37.73	$\frac{23}{24}$	11	8	4		i	T 00 00 T1 1 1
,, N.E	24	18	4	1	••	1	Jan. 29-30; Feb. 1; Oct. 23; Dec. 17.
Totals	488	290	152	33	5	8	
Percentages		59.4	31.2	6.8	1.0	1.6	

TABLE 5.

COMPARATIVE STATEMENT OF THE STORM WARNINGS AND THEIR RESULTS IN 1892, AND IN THE TEN PRECEDING YEARS.

Years.	Total No. of Warnings issued.	Warnings justified by subsequent Gales.	Warnings justified by subsequent strong Winds.	Total Warnings justified.	Warnings not justified by subsequent Weather.
		p.c.	p.c.	p.c.	p.c.
1883	610	56.2	21.6	77.8	20.8
1884	461	66.4	20.0	86.4	12.1
1885	591	55.3	24.0	79.3	19.5
1886	542	55.3	26.9	$82 \cdot 2$	15.9
1887	472	55.5	26.1	81.6	16.4
1888	539	55.3	28.6	83.9	14.3
1889	373	47.7	33.5	81.2	16.9
1890	525	61.0	25.5	86.5	9.3
1891	522	62.3	24 5	86.8	7.5
1892	488	59.4	31.2	*90.6	6.8

^{*} Note.—It will be seen that the total percentage of warnings justified in 1892 41 is 90.6, being the highest on record.

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	GOOLE High Water.	Aftern.	44444444444444444444444444444444444444
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	LIVERPOOL ligh Water.	Aftern.	88 51 52 52 52 52 54 54 55 55 55 55 55 55 55 55 55 55 55
MARCH,	LIVE	Morn.	######################################
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.Y.	LIVERPOOL High Water.	Aftern.	844110000000000000000000000000000000000
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FF	٠٧.	BQ	水地内を含ままで、水地のできらまで、水地のできらまり、水地のできょうに、水地のでは、ままで、水土の、土土の、土土の、土土の、土土の、土土の、土土の、土土の、土土の、土土の
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۲.	LIVERPOOL High Water.	Aftern.	######################################
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	RPOOL Water.	Aftern	115098455985588888888999999999999999999999
DECEMBER.	LIVERPOOL High Water	Morn A	1100984765488 1009987664718883118
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	' 91	Dat	
. B.	POOL Water.	Aftern.	11000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NOVEMBER	LIVERPOOL High Water	Morn.	40-19884-6-20-20-20-10-10-10-10-10-10-10-10-10-10-10-10-10
NO	٧.	вO	東京の東京の東京の東京の東京の東京の東京の東京の東京の東京の東京の東京の東京の東
İ	·ə:	Dad	13847848581334857858383838888
٠	LIVERPOOL High Water.	Aftern.	101142000400000000000000000000000000000
OCTOBER	LIVE	Morn.	H00-1-2824-2822-2831 H05-242-2825-2832-2833-283-483-483-483-483-48-48-48-48-48-48-48-48-48-48-48-48-48-
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	٠,	JaG	13246062051321551585333333353
SR.	LIVERPOOL ligh Water.	Aftern.	12000000000000000000000000000000000000
SEPTEMBER	LIVERPOOL High Water	Morn.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SE	•2	Day	2 年間の電気の日間のでは、1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	POOL Water.	Aftern.	58855785577865773677786677866778866778867788
AUGUST	LIVERPOOL High Water	Morn.	11101110111011110111101111011110111101111
		URU	東京のより取り出れるのよないまいまりませいないまりませい。
	Date.		1924290512217577809922222222
JULY.	POOL Water.	Aftern.	82525555555555555555555555555555555555
	LIVERPOOL High Water.	Morn.	1200 - 0.000 -
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		Date	

TABLE

Showing the Nomber of Days between any two Dates; also showing the Nomber of Days from any Day throughout the YEAR to the 31st of DECEMBER, the usual period to which Interest is Calculated.

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	Days to Dec. 31.	913	616	51.	910	503	808	207	206	205	204	203	202	201	200	199	198	197	196	195	194	193	192	191	190	189	188	187	186	185	184	
JUNE.	Number.	152	5.5	154	10	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	.173	174	175	176	177	178	179	180	181	
	June.	-	3	(m)	4	120	9	1	00	6	10	1	12	13	14	15	16	17	18	19	20	21	55	23	24	25	56	27	28	29	30	
	Days to Dec. 31.	244	243	242	241	240	239	238	237	236	235	234	233	232	231	230	550	228	287	556	225	224	223	222	221	220	219	218	217	216	215	914
MAY.	Number.	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	121
	May.	-	27	ന	4	÷	9	2	တ	6	10	=	12	33	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	21
	Days to Dec. 31.	274	273	272	271	270	569	568	267	566	565	264	263	565	261	260	259	258	257	256	255	254	253	252	251	250	249	248	247	246	245	
APRIL.	Number.	91	95	66	94	95	96	97	86	- 66	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	
	April	-	91	ന	4	70	9	<u>-</u>	œ	6	10	Ξ	12	13	14	15	16	17	18	19	50	21	55	23	24.	25	26	27	28	53	30	
	Days to Dec. 31.	305	304	303	305	301	300	599	868	297	596	295	294	293	595	291	530	588	888	287	586	285	584	283	282	281	580	279	278	277	922	275
Мавсн	Number.	09	61	62	63	64	65	99	67	89	69	20	71	- 22	73	74	7 <u>ŏ</u>	92	2.2	- 82	- 20	- 8	81	85	83	84	85	98	87	88	68	06
	Mar.	. –	01	ന	4	ıO	9	2	œ	6	10	11	12	13	14	15	16	17	18	19	20	21	. 22	23	24	25	98	27	88	59	30	Ġ.
ίΥ.	Days to Dec. 31.	333	332	331	330	329	328	327	326	325	324	323	355	321	350	319	318	317	916	315	314	313	312	311	310	309	308	307	306			
FEBRUARY.	Number.	32	33	34	35	36	37	38	 68	40	41	45	43	44	45	- 46	47	848	49	20	21	52	52	54	55	56	22	58	59			•
- Constant	Feb.	_	03	က	41	20	9	7	x	<u></u>	91	Ξ	12	13	14	15	16	17	18	13	20	21	55	23	24	25	56	22	88			
Υ.	Days to Dec. 31.	364	363	362	361	360	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344	343	345	341	340	339	338	337	336	335	334
JANUARY.	Number.	-	જ	က	4	10	9	2	o	 	10	=	15	 E2	14	12	16	17		61	20	21	2.3	53	24	25	56	27	87	53	30	or:
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BER.	Days to Dec. 31.	30	29	87	27	56	25	24	23	22	21	20	19	18	17	16	15	14	13	15	=	10	G	œ	2	9	10	4	ಣ	ÇI	7	
DECEMBER.	Number.	335	336	337	338	339	340	341	342	343	344	345	, 346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	200
	Dec.	-	2	က	4	70	ဗ	7	œ	6	10	=	12	133	=	15	16	17	18	19	20	21	55	23	54	25	26	27	28	53	30	10
ER.	Days to Dec. 31.	09	59	58	22	26	55	54	53	55	51	20	49	48	47	46	45	44	43	42	41	40	33	38	37	36	35	34	33	32	31	
NOVEMBER.	Number.	305	306	307	308	309	310	311	312	313	314	315	316	317	318	316	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	
	Nov.	1	8	က	4	20	မ	7	00	6	10	11	13	13	14	15	16	17	18	19	20	21	55	23	24	25	56	27	58	29	30	
B.	Days to Dec. 31.	91	90	68	88	87	98	35	84	83	85	81	80	46	28	77	92	75	74	73	72	71	20	69	89	67	99	65	64	63	62	
OCTOBER.	Number.	274	275	276	277	278	279	580	281	285	283	284	285	586	287	588	583	590	291	292	293	294	295	596	297	598	500	300	301	302	303	100
	Oct.	-	22	က	4	ī	9	7	0	6	10	11	12	13	14	15	16	17	18	19	20	21	55	23	24	25	56	27	28	53	30	****
ER.	Days to Dec. 31.	121	120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	105	101	100	66	86	97	96	95	9.4	93	95	
SEPTEMBER.	Number.	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	564	265	566	267	897	569	270	271	272	273	_
	Sept.	-	87	က	4	5	၁	~	00	6	10	Ξ	15	13	14	15	16	17	18	19	20	21	55	23	24	25	26	27	28	53	30	
	Days to Dec. 31.	152	151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	100
AUGUST.	Number.	213	214	215	216	217	218	219	220	221	222	223	224	225	256	227	878	556	230	231	232	233	234	235	236	237	238	239	240	241	242	010
	Aug.	1	2	ന	4	20	9	<u>_</u>	00	<u>с</u>	10	7	12	13	14	15	16	17	18	19	20	21	55	23	24	25	26	27	58	53	30	0
	Days to Dec. 31.	183	182	181	180	179	178	177	176	175	174	173	172	171	170	169	168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	120
JULY.	Number.	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	202	506	207	808	500	210	211	010
	July.	-	67	က	4	73	9	7	œ	5	10	=	2	33	17	15	16	17	18	13	50	21	22	23	24	25	56	27	58	53	30	. 0

THE USE OF OIL ON ROUGH SEAS.

 ${f F}^{
m OR}$ the use of oil on rough seas the following methods will be of great service:—

1. On free waves, that is, waves in deep water the effect is greatest.

- 2. In a surf, or waves breaking on a bar, where a mass of liquid is in actual motion in shallow water, the effect of the oil is uncertain, as nothing can prevent the larger waves, under such circumstances, from breaking; but it is of some service even here.
- 3. The thickest and heaviest oils are most effectual. Kerosene refined is of little use. When nothing else is obtainable, crude petroleum is serviceable; but all vegetable and animal oils, such as waste oil from the engines, have great effect.
- 4. If applied in such a manner as to spread to windward, a small quantity of oil is sufficient.
 - 5. Both when lying or running to, or in wearing, it is useful in a ship or boat.
- 6. When hoisting a boat up in a seaway at sea, it is highly probable that much time and injury to the boat would be saved by its application.
- 7. The oil, in cold water, not being able to spread freely, and being thickened by the lower temperature, will have its effect much reduced, varying according to the description of oil used.
- 8. Small canvas bags, capable of holding from one to two gallons of oil, hanging over the side in such manner as to be in the water, the bags being punctured with a sail needle, so as to expedite the leakage, appears to be the best method of application in a ship at sea. Circumstances should vary the position of these bags. They should be hung on either bow when running before the wind—for example, from the cathead—and should be allowed to tow in the water. The effect seems to be less with the wind on the quarter than in any other position, the waves coming up on the quarter, while the oil goes astern. The weather bow and another position further aft seem the best positions to hang the bags when lying to, and a sufficient length of line to allow them to draw windward as the ship drifts.
- 9. Oil poured overboard and allowed to float in ahead of the boat, with a bag towing astern, appears to be the best plan when crossing a bar with a flood tide. The effect, however, cannot be so much trusted. For the purpose of entering on a bar with the ebb tide, it appears to be useless to try oil.
- 10. It is recommended to pour oil overboard to windward before going alongside for boarding a wreck. In this case the effect must depend upon the set of the current and the circumstances of the depth of water.
- 11. It is recommended for a boat riding in bad weather from a sea anchor to fasten the bag to an endless line rove through a block on the sea anchor, the oil becoming diffused well ahead of the boat, and, if necessary, the bag can be readily hauled on board for refilling.

Table Showing the Number of Days from any Day of one Month to the same Day of any other Month.

NUMBER OF DAYS FROM DAY TO DAY,

F ROM ТО	JAN.	FEB.	MAR.	APRIL	MAY.	JUNE.	JULY.	Aug.	SEPT.	Ост.	Nov.	DEC.
JANUARY	365	31	59	90	120	151	181	212	243	273	304	334
February	334	365	28	59	89	120	150	181	212	242	273	303
March	306	337	365	31	61	92	122	153	184	214	245	275
APRIL	275	306	334	365	30	61	91	122	153	183	214	244
May	245	276	304	335	365	31	61	92	123	153	184	214
Jone	214	245	273	304	334	365	30	61	92	122	153	183
JULY	184	215	243	274	304	335	365	31	62	92	123	153
August	153	184	212	243	273	304	334	365	31	61	92	122
September	122	153	181	212	242	273	303	334	365	30	61	91
October	92	123	151	182	212	243	273	304	335	365	31	61
November	61	92	120	151	181	212	242	273	304	334	365	30
Dесемвев.	31	62	90	121	151	182	212	243	274	304	335	365

Example of Use of Table:—To find the number of days from 16th August to 27th February. Find August in the side column and February at the top; the number at the intersection, viz., 184, is the number of days from 16th August to 16th February; and 11 (the difference between 16 and 27), and the sum 195 is the number required. Similarly, the number from 16th August to 5th February is 184 less 11, or 173.

				Wrankfort.	Ham		Ruda			*	,
ARTICLE.	Paris.	Lille.	Berlin.	on-Main.		Vienna.		Prague.	Rome.	Prague. Rome. Florence Brussels.	Brussels
			1								
	1s. to 1s.4d.	. 1s. 5gd.	_	99	11 <u>4</u> d.	8d.	8 } d.	7d.	8 3 d.	9d.	10 gd.
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Inferior	:	73d.		7d.	7 3 d.	Av. 7d.	₹q.	eg.	:	.pg	6 <u></u> 4d.
F.TOUR:											
First quality	2d. to 24d.	2‡d.	13d.	2 <u>\$</u> d.	. 2d.	2d.	1_1 d.	2 } d	2d.	23d.	13d.
Second quality	:	:	:	:	:	1,3d.	:	:	:	2 <u>1</u> d.	:
WHEAT-BREAD:											
White household	2d. to 21d.	13d.	2‡d.	2d.	3d.	13d.	14.d.	13d.	.5d.	2d.	1.3d.
Second quality	:	. :	. :	:	:	. :	:	.:	:	1 <u></u> åd.	ı :
Third quality	:	:	:	:	:	:	:	:	:	1.d.	:
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RICE: -											
For human consump- tion, without husk.	2d. to 24d.	33d.	34d. to 34d. 2d. to 5d.	2d. to 5d.	3d.	3d.	:	23d.	2½d.	2gd to3d.	13d.
SUGAR:-										·	
Good white lump,	64d.	54d.	44d. to 43d. 4d. to 43d.	4d. to 41d.	43d.	33d.to4d.	4d.	33d.	73d. }	†63d. to	4§d.
COFFEE:										N	
Brazil or plantation,											
roasted and ground,					,				,	1s. 10d	3
other coffee sub-	fresh roasts d	zs. uga.	1s. 4‡d.	Is. og.	rs. og.	18. 5d. 18. 85d. 18. 55d. 18. 84d. 18. 11d.	18. 55d.	Is. 8‡d.	1s. 11d.	50 31d	11s. 280.
200										- 230	

* N.B.—The rate of exchange has been taken at twenty-six lire per £, as being the approximate average for the whole year (1892). † Imported in the rough, and refined in Italy; the greater portion is stated to be "beet-root." † The coffee is chiefly imported from the Dutch Colonies; Brazil coffee is little or not used. The above price refers to coffee in the bean, ground coffee is not generally sold in Brussels.

TERMS AND ABBREVIATIONS COMMONLY USED IN BUSINESS.

A/c Account.

C..... Currency.

\$ A dollar.

E. E. Errors excepted.

E. & O. E.... Errors and omissions excepted.

F. O. B. Free on board (delivered on deck without expense to the ship).

F. P. A.... Free of particular average.

INST..... Present month.

Prox..... Next month.

ULT..Last month.

D/D Days after date.

M/D.......Months after date.

D/S..... .. Days after sight.

%Per cent.

@ p lbAt per pound.

B/L.... Bill of lading.

AD VALOREM . . According to value.

Affidavit Statement on oath.

Affirmation. . Statement without an oath.

AGIOThe premium borne by a better sort of money above an inferior.

AssetsA term for property in contradistinction to liabilities.

Banco A continental term for bank money at Hamburg and other places.

DEAD FREIGHT.—The damage payable by one who engages to load a ship fully, and fails to do so.

DEVIATION, in marine insurance, is that divergence from the voyage insured which releases the underwriter from his risk.

DISCOUNT.—An allowance made for payment of money before due.

Policy.—The document containing the contract of insurance. A Valued Policy is when the interest insured is valued. An Open Policy is one in which the amount is left for subsequent proof. In an open policy where the value shipped does not equal the value insured, the difference is termed over insurance; and the proportionable amount of premium returnable to the insurer is called a return for short interest.

Primage.—A small allowance for the shipmaster's care of goods, now generally included in the freight.

PRO RATA.—Payment in proportion to the various interests concerned.

QUID PRO QUO.—Giving one thing for another.

RESPONDENTIA.—A contract of loan by which goods in a ship are hypothecated to the lender, as in bottomry.

ULLAGE.—The quantity a cask wants of being full.

A CALENDAR

FOR ASCERTAINING ANY DAY OF THE WEEK FOR ANY GIVEN TIME WITHIN THE PRESENT CENTURY.

	YEARS	s 18	801	то 1	1900				31 Jan.	28 Feb.	31 Mar.	30 April	31 Mav.	30 June	31 July.	31 Aug.	30 Sept.	81 Oct.	30 Nov.	81 Dec.
1801 1807 181	8 1829	1835	1846	1857	1863	1874	1885	1891	4	7	7	3	5	1	8	6	2	4	7	2
1802 1813 181	9 1830	1841	1847	1858	1869	1875	1886	1897	5	1	1	4	6	2	4	7	3	5	1	3
1803 1814 182	25 1831	1842	1853	1859	1870	1881	1887	1898	6	2	2	5	7	8	5	1	4	6	2	4
1805 1811 189	22 1833	1839	1850	1861	1867	1878	1889	1895	2	5	5	1	3	6	1	4	7	2	5	7
1806 1817 182	1834	1845	1851	1862	1873	1879	1890	·	8	6	6	2	4	7	2	5	1	8	6	1
1809 1815 18	6 1837	1943	1854	1865	1871	1882	1893	1899	7	3	3	6	1	4	6	2	5	7	3	5
1810 1821 183	7 1838	1849	1855	1866	1877	1883	1894	1900	1	4	4	7	2	5	7	8	6	1	4	6
Nоте.—То					L	EAP '	YEAR	s.	-	29										
the week in an century, first	look in	the	table	of	1804	1832	1860	1888	7	3	4	7	2	5	7	8	6	1	4	6
years for the	nths are	figur	es wh	ich	1808	1836	1864	1892	5	1	2	5	7	3	5	1	4	6	2	4
refer to the at the head o	f the col	lumn	s of d	ays	1812	1840	1868	1896	3	6	7	3	5	1	3	6	2	4	7	2
day of the w	eek Ma	y 4	was	on	1816	1844	1872		1	4	5	1	3	6	1	4	7	2	5	7
in the year years look for	1876. an	d in a	a para	llel	.1820	1848	1876	٠	6	2	3	6	1	4	6	2	5	7	8	5
line, under M	lumn 1,	in	which	ı it	1824	1852	1880		4	7	1	4	6	2	4	7	3	5	1	8
will be seen Thursday.	that M	ay 4	fell	on	1828	1856	1884		2	5	6	2	4	7	2	5	1	3	6	1
1	2			3			4			5		1		6	3			7	,	
Monday	Tuesda Wednee Thursd Friday Saturda Sunnax Monday Tuesda Wednee Thursd Friday Saturda Sunnax Monday Tuesda Wednee Thursd Friday Saturda Sunnax Monday Taturda Wednee Thursd Friday Saturda Sunnax Monday Tuesda Wednee Thursd Tuesda Wednee Thursd Tuesda Wednee	day :	22 Th	dnesdursda didday didday didday didday didday didday didday didday esday esday esday diday	y 2 3 3 4 5 6 6 7 6 8 8 8 9 9 9 10 11 12 12 13 14 15 15 17 7 18 19 20 22 28 24 27 28 8 29	Frida Satus Monor Tuese Wed Thur Frida Satus Monor Tuese Wed Thur Frida Satus Monor Tuese Wed Thur Frida Status Suni Monor Tuese Wed Wed Wed Wed Wed Wed Wed Wed Wed	rday hay day day day say rday rday hay day hay hay hay hay hay hay hay hay hay h	2 3 4 4 4 4 5 6 7 7 8 9 9 110 111 12 113 114 115 116 117 118 119 122 22 22 24 225 226 27 228 229 119 119 119 119 119 119 119 119 119	Frid Satus Sun: Mon Tues Wed Thu Sun: Mon Tues Wed Thu Wed Thu Wed Thu Sun: Mon Tres Wed Thu Tres Trid Trid Sun: Trid Sun: Trid Sun: Trid Sun: Trid Sun: Thu Sun: Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Thu Sun: Sun: Sun: Thu Sun: Thu Sun: Sun: Thu Sun: Sun: Sun: Sun: Sun: Sun: Sun: Sun	urda DAY dayysday rsda rsda ay urda dayysday sday urda day sday sday urda day sday sday urda rrda ay urda rrda rrda rrda rrda rrda rrda rrda	7 day y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 4 5 5 6 7 8 9 0 0 11 12 13 4 4 5 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Sature Sa	inday Inday	yyysday yyysday yyysday yyyssay yyyssay yyyssay	1 2 3 4 4 7 5 6 7 8 9 10 11 2 12 12 12 14 15 16 17 18 19 20 12 22 23 24 25 26 27 28 29 20	Moo Tu We Thi Sat Sur Moo Tu We Thi Sat Sur Moo Tu We Thi Sat Sur Moo Tu We Thi Sat Sur Moo Tu We Thi Sat Sur Moo Tu Sat Sur Moo	nda esda day durd day durd durs day urd day urd day urd day urd	y y y sday ay y y s. lay ay y y s.	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 4 25 26 27 28 30

WEIGHTS AND MEASURES.

TROY WEIGHT.

		Pe	nnywt	8.	Grains.	gr.
	Onnce	es.	1	=	24	dict.
Pound.	1	=	20	=	480	oz.
1 =	= 12	=	240	=	5760	lb.
A carat =	4 gra	ins.	100	Troy	ounces =	= 190\$
			O	nnce	s Avoirdı	ıp ds.

AVOIRDUPOIS WEIGHT.

qr. cwt. 1= Ton. 1= 4=	1 = 1 $2 = 28$	1= 1= 16= 4= 224= 8= 448=	1: 16: 256: 3584 7168	$=487\frac{1}{2}$
1 = 20 = 80 = 10	60 = 2240)=35840=	573440	
Ton. cwt. qr.	st. lb.	02.	dr.	gr.
A Cental = 100	pounds	100 Oun	ces Ave	oirdu-

pois = 917 Ounces Troy.

The Apothecaries' Weight is now the same as the Avoirdupois.

LINEAL MEASURE, OR MEASURE OF LENGTH.

								ft.		iυ.
						yds		1	=	12
				pl		1	=	3		36
		ch.		'n	=	5	=		=	
	fur.					22			=	
Mile.						220				
1 :	= 8 :	= 80	===	320	=	1760	=	5280	=68	3360
A 16	982116	= 3	mil	es.	A	hand	=	4 inc	hes.	A

A league = 3 miles. A hand = 4 inches. A fathom = 6 feet.

Grographical degree = 60 geographical or nautical miles = 69·121 imper. miles.

Geographical mile = 1.150 imperial miles. A military pace = $2\frac{1}{2}$ feet.

SOLID OR CUBIC MEASURE.

	Cubic feet.		Cubic inches.
Cubic yard.	1	=	
1 =	27	=	46656
1 Ton of	Shipping =	40	cubic feet.
1 Rarrel	Rnlk =	5	cubic feet.

LIQUID MEASURE OF CAPACITY.

		Quarts.		Pinta.	_	Gills.
Gallon.	_	1 4	=	2 8	=	8 32

A hoysbead (hhd.) contains 63 gallons. A pipe is 2 hogsheads, and 2 pipes f rm a tun. All liquids are measured by this table.

GRAIN MEASURE, &C., OR DRY MEASURE

				Pecks	. Ge	illons
		Bushe	els.	1	=	2
Quarter.		1	=	= 4	=	-8
1	=	8	=	= 82	=	64
				busheis	nearly	
1 Boll	of	Barley	=6	11	**	
5 Bus	hels	are a	sack			

5 Quarters make a load.

SQUARE OR LAND MEASURE.

		Sq feet.	Sq. in.
	Sq. yards.		144
Sq.pol	les. 1 =	9 =	1296
Sq.roods. 1			
6q.acre. 1 = 40	= 1210 =	10890 =	1568160
1 = 4 = 160	= 4840 =	43560 =	6272640

l aquare milc=640 acres: 36 square yards=1 rood of building: 100 sq. feet = 1 square of flooting: 272\frac{1}{2} sq. feet = 1 rood of bricklayer's work. The chain with which land is mea-ured is 22 yards long, and 1 sq chain = 10,000 sq. linky, contains 22 × 22 = 484 sq. yards: 10 sq. chain = 1 acre.

TABLE OF TIME.

			1	linutes.	S	econds.
		Hour	8.	1	=	60
D	avs.	1	==	60	200	3600
Week.	ĭ =	24	=	1440	=	86400
1 =	7 =	168	=	10080	_	604800
1 Common	Year	= 365	dav	s, or 52 v	reek	al day.
1 Lann Vo				e or 50 w		

1 Common rear = 355 days, or 52 weeks 1 day.
1 Leap Year = 366 days, or 52 weeks 2 days.
1 Solar Year = 365 days 5 hours 48 minutes
49 seconds.

GEOGRAPHICAL OR NAUTICAL MEASURE.

16	eograj	hical mile = $\begin{cases} 1_{\frac{3}{46}} & \text{imperial mile o} \\ 6,076 & \text{feet.} \end{cases}$	f
3	9.7	miles = 1 league	
60	,,	miles = { 1 degree, marked deg	,

360 ,, degs. cr about 24,855½ imp. miles Circumfer-nce of the earth.

BREAD WEIGHT.

		lb.	oz.
A	Peck Loaf weighs	17	61
	Half Peck Loaf		11
Ā	Quartern Loaf	4	5
	Peck or Stone of Flour	14	0
A	Bushel of Floor	56	6
	Sack of Flour, or 5 Bushels	280	0

USEFUL WEIGHTS.

The following Table will be found useful when it is desired to ascertain the weight of a letter or other article, and auitable weights are not at hand. The weight given is that of coins fairly worn; allowance must be made if those used be new or very old.

cz....Halipenny and threepenny piece.

n...One penny piece.
n...Florin and sixpence.
n...Three penuies.
n...Three penuies.
n...4 half-crowns and one shilling.
n...4 florins, 4 half-crowns, 2½ penuies.

Books.

	Pages	. L	eav	es. She	et
Folio Books	. 4	or	2	make	1
Quarto, or 4to	. 8	99	4	**	1
Octavo, 8vo	. 16	11	8	9.0	-1
Duodecimo, or 12mo .	. 24		13	9.4	1
Octodecimo, or 18mo . 24mo, 32mo, 48mo, 72m	, 36		18	99	1

No.	10	d.	1/2	d.	3	d.	1	d.	2	d.	3	d.	4	d.	5	d.	6	d.	7	d.	8	d.	9	d.	10	d.	110	<i>i</i> .	No
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0 0	01 01 01 03 1 11 11 12 2 21 21 21	0 0 0 0 0 0 0 0 0 0 0	0½ 1 1½ 2 2½ 3½ 4 4½ 5	0 0 0 0 0 0 0 0 0 0	03-10-10-10-10-10-10-10-10-10-10-10-10-10-	0 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 10	0 0 0 0 0 1 1 1 1	2 4 6 8 10 0 2 4 6 8	0 0 0 1 1 1 1 2 2	3 6 9 0 3 6 9 0 3 6	0 0 1 1 1 2 2 2 3 3	4 8 0 4 8 0 4 8 0 4	0 0 1 1 2 2 2 3 3 4	5 10 8 8 1 6 11 4 9	0 1 1 2 2 3 8 4 4 4 5	6 0 6 0 6 0 6 0 6	0 1 1 2 2 3 4 4 5 5	7 2 9 4 11 6 1 8 3 10	0 1 2 2 3 4 4 5 6	8 4 0 8 4 0 8 4 0 8	0 1 2 8 3 4 5 6 6 7	9630968096	1 2 8 4 5	10 8 6 4 2 0 10 8 6 4	8 4. 5 6 7 8		100
11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 0 0 0 0	23 3 3 3 4 4 4 4 4 5 5 5 4 4 4 5 5 5 5 7 5 7 5 7	0 0 0 0 0 0 0 0 0 0	5½ 6 6½ 7 7½ 8 8½ 9 91 10		81 93 101 111 0 03 121 3	0 1 1 1 1 1 1 1 1	11 0 1 2 3 4 5 6 7 8	1 2 2 2 2 2 2 2 3 3	10 0 2 4 6 8 10 0 2 4	2 3 3 3 4 4 4 4 5	9 0 8 6 9 0 3 6 9	3 4 4 5 5 6 6 6	8 0 4 8 0 4 8 0 4 8	4 5 5 5 6 6 7 7 7 8	7 0 5 10 3 8 1 6 11 4	5 6 6 7 7 8 8 9 9	6 6 6 0 6 0 6 0	6 7 7 8 8 9 10 11 11	5 0 7 2 9 4 11 6 1 8	7 8 8 9 10 10 11 12 12 13	4 0 8 4 0 8 4 0 8 4	8 9 10 11 12 12 13 14 15	8 0 9 6 3 0 9 6 3 0	11 12 13 14 15	2 0 10 8 6 4 2 0 10 8	11 11 12 1 13 14 15 16 17		11 12 13 14 15 16 17 18 16 17 18 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
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33 36 40 42 45 48 50 51 52 53 54 56 60		81 9 10 101 111 0 0 0 3 1 111 12 2 3	1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4½ 6 8 9 10½ 0 1 1½ 2 2½ 3 4 6	2 2 2 2 2 2 3 3 3 3 3 3 3 3 3	034 3 6 7 934 0 1 1 2 1 4 2 3 3 3 4 4 2 6 9	233334444445	9 0 4 6 9 0 2 3 4 5 6 8 0	56677888889910	6 0 8 0 6 0 4 6 8 10 0 4 0	8 9 10 10 11 12 12 12 13 13 14 15	3 0 0 6 3 0 6 9 0 3 6 0 0	11 12 13 14 15 16 16 17 17 17 18 18 20	0 0 4 0 0 0 8 0 4 8 0 8 0 8	18 15 16 17 18 20 21 21 21 22 22 23 25	9 0 8 6 9 0 10 3 8 1 6 4 0	16 18 20 21 22 24 25 26 26 27 28 30	6 0 0 0 6 0 0 6 0 6 0 0 0 0 0	19 21 23 24 26 28 29 30 31 32 35	3 0 4 6 3 0 2 9 4 11 6 8 0	22 24 26 28 30 32 33 34 34 35 36 37 40	0 0 8 0 0 0 4 0 8 4 0 4 0	24 27 30 31 33 36 37 38 39 40 42 45	9006906309600	27 30 33 35 37 40 41 42 43 44 45 46 50	6040608642080	33 36 38 41 44 45 1 46 47 48 49 51	30 30 35 30 30 30 30 30 30 30 30 30 30 30 30 30	33 36 40 42 45 50 50 50 50 50 50 50 50 50 50 50 50 50

Per Per Per Per Per Per Per Per Per Per Per Per Year. Month. Week Week. Day. Year. Month. Week. Day. Year. Day. Month. d. 19 8 6 4 6 2 0 3 10 8 0 6 4 9 2 0 6 10 8 3 6 £ 8 8 9 9 10 10 11 11 12 13 13 14 14 15 16 16 17 17 13 14 14 15 16 17 18 19 0 1 1 2 3 4 5 6 6 8 8 9 402098643008946038049 S3333334444455555666666 d. 12857100857108479015564 d.068408408408408408 8. 6 7 7 7 11 15 19 8 6 10 14 18 16 15 13 12 10 9 7 6 4 18 19 20 30 40 50 60 70 80 90 100 200 400 500 600 700 800 1000 011222333444555666777 10 0 10 0 2 10 0 3 10 0 4 0 8 10 0 9 0 10 0 11 0 12 0 15 0 16 0 17 00000000000001111222 0111122 21223 115534 111414 1114 10 0 5 10 0 6 10 0 7

CIVIL LIST PENSIONS.

LIST OF ALL	PENSIONS GRANTED DURING THE YEAR ENDED 20TH JUNE, 1893,
	AND CHARGED UPON THE CIVIL LIST.
7	(From Official Sources.)

Date of Grant. 1892.		ount
	.Mr. William Smyth Rockstro	rsion.
	In consideration of his services to musical literature	£100
4	and of his inadequate means of support.	
August 15	.Mrs. Cashel Hoey	
	In consideration of her literary merits, and of her inadequate means of support.	
November 29	.Mrs. Emilie Dittmar	75
	In consideration of the services to chemical science	
	rendered by her late husband, Professor William	
November 20	Dittmar, F.R.SMiss Lucy Mary Jane Garnett	100
November 25	In recognition of her literary merits, and to enable her	100
	to prosecute her researches in oriental folk lore.	
November 29	.Mr. Robert Brown, jun	100
	In consideration of his merits as a student of archæology.	
November 29	.Dr. Samuel Davidson.	
	In recognition of the value of his works on theology and biblical criticism.	•
1893.	and officar criticism.	
	.Rev. Richard Morris	150
	In recognition of his merits as a student of early	
	English literature and philology.	
February 24	.Miss Margaret Stokes	
	In consideration of her researches into early Christian art and archæology in Ireland.	1
June 19	Mr. John Gwenogvryn Evans	200
oune 10	To enable him to continue his researches in Welsh	
	literature.	
June 19	.Mrs. Cornelia Minto	
	In consideration of the literary merits of her husband	
	the late Professor Minto, and of her inadequate means of support.	:
June 19	.Mrs. Annie S. C. Rogers	50
ouno 10	In recognition of the merits of her husband, the late	
	Professor Thorold Rogers, as a writer upon political	
T 10	economy.	50
June 19	.Mrs. Therese Wolstenholme	
	Rev. Joseph Wolstenholme, as a mathematician,	
	and of her straitened circumstances.	
June 19	.Mrs. Frances E. Trollope	50
	In consideration of the literary merits of her husband,	
	the late Mr. Thomas Adolphus Trollope, and of her narrow means.	
	-	
	${\rm Total} \mathfrak{L}$	1,200

CO-OPERATIVE CONGRESSES.

* Professor Caird presided at this Congress; the inaugural address was delivered by Professor Hodgson. In all other cases the chairman for the day delivered the inaugural address.

CONTRIBUTIONS WHICH HAVE APPEARED IN "THE CO-OPERATIVE WHOLESALE SOCIETIES" ANNUAL" FROM 1885 TO 1894.

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THE ENGLISH MILE COMPARED WITH OTHER EUROPEAN MEASURES.

	English Statute Mile.	Engli Geog. 1	sh Iile.		ench mètre.	German Geog. Mile.	Russian Verst,
English Statute Mile	1.000	0.80	37	1.	609	0.217	1.508
English Geog. Mile	1.153	1.00	00	1.	855	0.250	1.738
Kilomètre	0.621	0.5	10	1.	000	0.135	0.937
German Geog. Mile	4.610	4.00	00	7.	420	1.000	6.953
Russian Verst	0.663	0.5	75	1.	067	0.144	1.000
Austrian Mile	4.714	4.08	39	7.	586	1.022	7.112
Dutch Ure	3.458	3.00	00	5.	565	0.750	5.215
Norwegian Mile	7.021	6.09	91	11	299	1.523	10.589
Swedish Mile	6.644	5.70	34	10	692	1.441	10.019
Danish Mile	4.682	4.00	32	7.	536	1.016	7.078
Swiss Stunde	2.987	2.5	92	4.	808	0.648	4.505
	Austrian Mile.	Dutch Ure.		rwe- Mile.	Swedi Mile		Swiss Stunde
English Statute Mile	0.212	0.289	0.	142	0.15	1 0.213	0.33
English Geog. Mile	0.245	0.333	0.	164	0.16	9 0.246	0.38
Kilomètre *	0.132	0.180	0.	088	0.09	4 0.133	0.20
German Geog. Mile	0.978	1.333	0.	657	0.69	4 0 985	1.54
Russian Verst	0.141	0.192	0.	094	0.10	0 0.142	0.22
Austrian Mile	1.000	1.363	0.	672	0.71	0 1 006	1.578
Dutch Ure	0.734	1.000	0.	493	0.52	0 0.738	1.15
Norwegian Mile	1.489	2.035	1	000	1.05	7 1.499	2.35
Swedish Mile	1.409	1.921	0	948	1.00	0 1.419	2.22
Danish Mile	0.994	1.354	0	667	0.70	5 1.080	1.56
Swiss Stunde						9 0.638	1.000

PRINCIPAL ARTICLES OF THE CALENDAR, FOR THE YEAR 1894.

Golden Number XIV	Dominical Letter G
Epact	Roman Indiction 7
Solar Cycle 27	Julian Period6607
The state of the s	April 1900 de la compansa de la comp
FIXED AND MOVABLE FESTI	VALS, ANNIVERSARIES, ETC.
EpiphanyJan. 6	Pentecost—Whit Sunday May 13
Septuagesima Sunday ,, 21	Trinity Sunday ,, 20
Quinquagesima Sunday Feb. 4	Queen Victoria born (1819) " 24
Ash Wednesday, 7	Corpus Christi
Quadragesima—1 Sun. in Lent ,, 11	Accession of Queen Vict. (1837).June 20
St. DavidMar. 1	Proclamation, 21
St. Patrick ,, 17	St. John Baptist-Midsum. Day ,, 24
Palm Sunday, 18	St. Michael—Michaelmas Day.Sept. 29
Good Friday " 23	Prince of Wales born (1841) Nov. 9
Lady Day, ,, 25	St. Andrew ,, 30
Easter Sunday, 25	St. ThomasDec. 21
Low Sunday April 1	Christmas Day (Tuesday) ,, 25
Ascension Day	

The Year 5655 of the Jewish Era commences on October 1st, 1894.

Ramadân (Month of Abstinence observed by the Turks) commences on March 8th, 1894.

The Year 1312 of the Mahommedan Era commences on July 5th, 1894.

Calendar for 1894.

	February.					March.											
5		7	14	21	28	,5		4	11	18	25	8		4	11	18	25
M	1	8	15	22.	29	M		5	12	19	26	M	٠.	5	12	19	26
To	2	9	16	23	30	Tu		6	13	20	27	To		6	13	20	27
w	3	10	17	24	31	w		7	14	21	28	w		7	14	21	28
Th	4	11	18	25		TH	1	8	15	22		TH	1	8	15	22	29
F	5	12	19	26		F	2	9	16	23		F	2	9	16	23	30
S	6	13	20	27		S	3	10	17	24		S	3	10	17	24	31
	-	Ap	ril.			-		287	aŋ.			June.					
8	1	8	15	22	29	\$		6	13	20	27	5		3	10	17	24
M	2	9	16	23	30	M		7	14	21	28	M	.,	4	11	18	25
Tu	3	10	17	24		Tu	1	8	15	22	29	Tu		5	12	19	26
w	4	11	18	25		w	2	9	16	23	30	w		6	13	20	27
Th	5	12	19	26		Thr	3	10	17	24	31	Œ		7	14	21	28
F	6	13	20	27		F	4	11	18	25		F	1	8	15	22	29
S	7	14	21	28		S	5	12	19	26		S	2	9	16	23	30
		Ŋu	ſŋ.			August.						5	epte	mb	er.		
\$	1	8	15	22	29	5		5	12	19	26	36		2	0 16	23	30
M	2	9	16	23	30	M		6	13	20	27	M		3 1) 17	24	
Th	3.	-10	17	24	31	Tb		7	14	21	28	To		4 1	1 18	25	
w	4	11	18	25		w	1	8	15	22	29	w		5 1	2 19	26	
Th	5	12	19	26		Th	2	9	16	23	30	Th		6 1	3 20	27	
F	6	13	20	27		F	3	10	17	24	31	F		7 1	4 21	28	
S	7	14	21	28		S	4	11	18	25		S	1	8 1	5 22	29	
	C	ctc	Be	r.		November.						December.					
\$	T	7	14	21	28	5	1	4	11	18	25	3		2 9	16	23	30
M	1	8	15	22	29	M		5	12	19	26	M		3 10	17	24	31
Tt	2	9	16	23	30	To		6	13	20	37	Tt		4 11	18	25	
W	3	10	17	24	31	w		7	14	21	28	W		5 12	19	26	
Th	4	11	18	25		Th	1	8	15	22	29	Th		6 13	20	27	
F	.5	12	19	26		F	2	9	16	23	30	F		7 14	21	28	
		13		27		S	3	10	17	24		S	1	8 15	22	29	

January.

SUNRISE AND SUNSET.

RISING, SETTING, AND CHANGES OF THE MOON.

 1st Rises.
 2 46 morn.
 Sets 0 11 aft.
 15th Rises 11 8 morn.
 Sets 0 50 morn.

 5th
 ,
 ,
 9 32 ,
 ,
 5 12 ,
 22nd ,
 5 37 aft.
 ,
 8 54 ,

 29th Rises 1 48 morn.
 Sets 10 32 morn.

ay of Month.	Day of Week.	Year.	Remarkable Days, Festivals, Anniversaries, &c.
1	M	1801	Union with Ireland
$\frac{2}{3}$	Tu	1868	Decided to Start Scottish Wholesale Society
3	W	1803	Douglas Jerrold born
5	Тн	1863	Working Men's College, London, opened
5	F	1827	Duke of York died
6	S		Epiphany
7	S		First Sunday after Epiphany
8	M		Cambridge Lent Term begins
9	Tu :		Fire Insurance expires
10	W	1840	Penny Post commenced
11	Тн	1866	Wreck of the "London"
12	F	1887	Lord Iddesleigh died
13	S	1873	Crumpsall Works purchased
14	\$		Second Sunday after Epiphany
15	M	1877	Cork Branch established
16	Τυ	1809	Battle of Corunna. Sir John Moore killed
17	W	1706	Benjamin Franklin born
18	Тн	1890	James Hilton, director C. W. S., died
19	F	1876	Albert Music Hall, Glasgow, burnt
20	S	1779	David Garrick died
21	\$. Septuagesima Sunday
22	M		St. Vincent
23	Tu	1875	Canon Kingsley died
24	W		Frederick the Great born
25	Тн	1759	Robert Burns born
26	F	1878	Great Famine in China
27	S	1	Nomination Lists: Last day for receiving
28	5		Sexagesima Sunday
29	M	1833	First Reformed Parliament met
30	Tu	1880	S.S. "Plover" sold
31	W	1892	Rev. C. H. Spurgeon died

Jebruary.

SUNRISE AND SUNSET.

 1st Rises at..
 7
 41
 Sets at ...
 4
 47
 | 15th Rises at...
 7
 17
 Sets at ...
 5
 13

 8th
 ,,
 ...
 7
 0
 22nd
 ,,
 ...
 7
 3
 ,,
 ...
 5
 26

RISING, SETTING, AND CHANGES OF THE MOON.

 1st Rises.
 5 24 morn.
 Sets 11 55 morn.
 1 5th Rises 11 1 morn.
 Sets 4 13 morn.

 8 40
 ,,
 8 2
 ,,
 2 2nd
 ,,
 8 49 aft.
 ,,
 7 58
 ,,

 New Moon, 5th
 9 45 aft.
 Full Moon, 20th
 2 16 morn.

 First Quarter, 13th
 10 43 morn.
 Last Quarter, 27th
 0 28 aft.

, Citylia	Day of Week.	Year.	Remarkable Days, Festivals, Anniversaries, &c.
1	Тн	1878	George Cruikshank died
2	F	1874	Tralee Branch opened—Candlemas Day
3	S	1830	Marquis of Salisbury born
4	\$		Quinquagesima Zunday
5	M	1881	Thomas Carlyle died
6	Tu		Shrove Tuesday
7	W	1812	Charles Dickens born
8	Тн		Half Quarter Day
9	F	1880	Wreck of the "Eurydice"
10	S	1840	Queen Victoria married
11	\$		First Sunday in Lent
12	M	1814	Custom House (London) burnt
13	Tu	1637	
14	W	1876	Opening of Newcastle Building, Waterloo Street
15	Тн		Ash Wednesday
16	F	1887	Wreck of the "George Cromwell"
17	S	1861	Duchess of Albany born
18	5	1889	Enderby Extension opened
19	M	1860	Sir W. Napier died
20	Tu	1855	Joseph Hume died
21	W	1879	"Pioneer" launched-New York Branch estab., 1876
22	Тн	1875	Sir Charles Lyell died
23	F	1732	George Washington born
24	S	1806	James Barry died
25	5	1878	
26	M	1871	Treaty of Versailles
27	Tu		Voting Lists: Last day for receiving
28	W		Hare Hunting ends

March.

SUNRISE AND SUNSET.

1st Rises at .. 6 48 Sets at ... 5 38 | 15th Rises at ... 6 17 Sets at .. 6 2
8th ,, .. 6 33 ,, ... 5 50 | 22nd ,, ... 6 1 ,, .. 6 14
29th Rises at 5 5. Sets at 6 26.

RISING, SETTING, AND CHANGES OF THE MOON.

Day of Month.	Day of Week.	Year.	Remarkable Days, Festivals, Anniversaries, &c.
1	Тн	1869	1, Balloon Street, Manchester, Warehouse opened
2	F	1810	Pope Leo born [Quarterly Meetings
3	S		Newcastle and London Branch and Divisional
4	\$		Fourth Sunday in Lent
5	M	1843	Thames Tunnel opened
6	Tu	1886	Richard Whittle, director C. W. S., died
7	W	1883	Green, historian, died
8	Тн	1844	Bernadotte died
9	F	1874	London Branch established
10	S		General Quarterly Meeting
11	\$		Fifth Sunday in Lent
12	M		St. Gregory
13	Tu	1881	The Czar's Accession [COMMENCED, 1887]
14	W	1864	Wholesale Society commenced business—Batley Mill
15	Тн	1860	HECKMONDWIKE CO-OPERATIVE SOCIETY COMMENCED
16	F	1856	Prince Louis Napoleon born
17	S		St. Patrick
18	\$		Palm Sunday
19	M	1876	General Chesney died
20	Tu	1845	Sir Thomas Potter, Knight, died
21	W	1871	Princess Louise married
22	Th	1797	Emperor William I. of Germany died
23	F	1849	Battle of Novara
24	S	1879	Rouen Branch opened—C.W.S. Quarter Day
25	\$		Zaster Sunday
26	M		Bank Holiday
27	Tu		Oxford and Cambridge Lent Term ends
28	W	1884	Duke of Albany died
29	Тн	1879	
30	F	1707	Marshal Vauban died [1875. Prof. T. Rogers, Pres.
31	S	1883	S. C. W. S. Stocktaking

April.

SUNRISE AND SUNSET.

 1st Rises at ... 5
 38
 Sets at ... 6
 31
 15th Rises at ... 5
 7
 Sets at ... 6
 54

 8th ... 5
 22
 ... 6
 43
 22nd ... 4
 52
 ... 7
 6

 29th Rises at 4
 38. Sets at 7
 17.

RISING, SETTING, AND CHANGES OF THE MOON.

Day of Month.	Day of Week.	Year.	REMARKABLE DAYS, FESTIVALS, ANNIVERSARIES, &c.
1	\$	1872	4TH CONGRESS, BOLTON. T. HUGHES, M.P., President
2	M	1877	9TH CON., LEICESTER. Hon.A.HERBERT, PresL'pool
3	Tu		[Depôt com., 1875—R. Allen, direc. C.W.S., d., 1877]
4	W	1774	Oliver Goldsmith died
5	Тн	1811	Robert Raikes died
6	F	1874	6th Congress, Halifax. T. Brassey, M.P., Pres.
7	S	1884	Hamburg Branch commenced
7 8	\$		Second Sunday after Easter [Insurance expires
9	M	1877	LEITH BRANCH, SCOTTISH WHOLESALE, OPENED—Fire
10	Tu	1871	3rd Congress, Birmingham. A.Herbert, M.P., Pres.
11	W	1861	American Civil War commenced
12	TH	1873	5th Congress, Newcastle. J. Cowen, jun., Pres.
13	F	1872	Samuel Bamford died
14	S	1873	Armagh Branch opened—11th Congress, Glo'ster.
15	\$		[Prof. J. Stuart, Pres., 1879
16	M	1746	Battle of Culloden
17	Tu	1876	8th Congress, Glasgow. Prof. Hodgson, Pres.
18	W	1891	Dunston Corn Mill opened
19	Тн	1881	Lord Beaconsfield died
20	F	1868	SCOTTISH CO-OPERATIVE WHOLESALE S. ENROLLED
21	S	1873	Justus Liebig, chemist, died
22	\$	1878	(10th Congress, Manchester. Marq. of Ripon, President—Nottingham Saleroom opened, 1886
23	M		St. George
24	Tu	1866	Tipperary Branch opened
25	W	1844	ROCHDALE PIONEERS' SOCIETY COMMENCED
26	Th	1819	Duke of Cambridge born
27	F	1882	Prince Leopold married
28	S		Nomination Lists: Last day for receiving
29	\$		Rogation Sunday
30	M	1834	Sir John Lubbock born

May.

SUNRISE AND SUNSET.

RISING, SETTING, AND CHANGES OF THE MOON.

1st Rises 3 13 morn. Sets 2 21 aft. | 15th Rises 3 8 aft. Sets 2 32 morn. 8th ", 5 37 ", " morn. | 22nd ", 11 28 ", " 5 1 ", 29th Rises 1 31 morn. Sets 1 14 aft.

New Moon, 5th 2 41 aft. First Quarter, 12th 6 21 morn. | Full Moon, 19th 4 43 aft. Last Quarter, 27th 8 4 ,

Day of Month.	Day of Week.	Year.	REMARKABLE DAYS, FESTIVALS, ANNIVERSARIES, &C.
1	Τυ	1892	John Thirlaway, director C. W. S., died
2	W	1868	Thames Embankment opened
$\frac{2}{3}$	Тн	1845	Tom Hood died
4	F	1876	Strike at Constantinople
$\frac{4}{5}$	S	1892	Birmingham Saleroom opened
6	\$		Sunday after Ascension.
7	M	1812	Robert Browning born
8	Τù	1893	Broughton Cabinet Factory opened
9	W	1873	John Stuart Mill died—Half Quarter Day
10	Тн	1816	Dr. Royle, Bishop of Liverpool, born
11	F	1812	Spencer Percival shot
12	S	1869	Co-op. Printing Society, Manchester, com. business
13	\$		Whit Sunday
14	M	1883	15th Con., Edinburgh. W. E. Baxter, M.P., Pres.
15	Τù	1847	Daniel O'Connell died
16	W	1871	Vendome Column destroyed
17	Тн	1880	12th Con., Newcastle. Bishop of Durham, Pres.
18	F	1891	23rd Con., Lincoln. A. H. D. Acland, M.P., Pres.—
19	S		[Samuel Lever, director C. W. S., died, 1888
20	\$		Trinity Sunday
21	M	1888	20th Congress, Dewsbury. E. V. Neale, Pres.
22	Τù	1893	25th Con., Bristol. Councillor G. Hawkins, Pres.
23	W	1812	Guilia Grisi born
24	Тн	1876	Purchase of s.s. "Plover" [son, direc.C.W.S., died, 1890]
25	F	1885	17th Cong., Oldham. Lloyd Jones, Pres.—J. Atkin-
26	S	1890	22nd Congress, Glasgow. Earl of Rosebery, Pres.
27	\$		First Sunday after Trinity
28	M		OXFORD. Ld. REAY, Pres., 1882
29	Tu		Voting Lists: Last day for receiving-14th Congress,
30	W	1887	19th Congress, Carlisle. G. J. Holyoake, Pres.
31	Тн	1884	Leicester Works Second Extension opened

June.

SUNRISE AND SUNSET.

 1st Rises at ... 3 51
 Sets at ... 8 5 | 15th Rises at ... 3 44
 Sets at ... 8 16

 8th ... 3 40
 ,, ... 8 11 | 22nd ... 3 45
 ,, ... 8 18

 29th Rises at 3 47. Sets at 8 18.

RISING, SETTING, AND CHANGES OF THE MOON.

Day of Month.	Day of Week.	Year.	Remarkable Days, Festivals, Anniversaries, &c.
1	F	1868	Kilmallock Branch opened
2	S	1884	16th Con., Derby. Sed. Taylor, Pres.—Newcastle
3	\$		[and Lond. Branch and Divisional Quar. Meet.
4	M	1859	Battle of Magenta
.5	Tu	1723	Adam Smith born
6	W	1892	24TH CON., ROCHDALE. J. T. W. MITCHELL, Pres.
7	Тн	1832	First Reform Bill passed
8	F	1873	Alexandra Palace burnt
9	S		General Quarterly Meeting
10	5	1889	21st Congress, Ipswich. Prof. A. Marshall, Pres.
11	M		St. Barnabas
12	Tu	1876	Midland Federal Corn Mill, Laying Foundation Stones
13	W	1889	Armagh Railway Disaster
14	TH	1886	18th Congress, Plymouth. Lord Morley, Pres.
15	F	1875	Manchester Drapery Warehouse, Dantzie St., opened
16	S	1888	Emp. Fred. Wm. of Germany died. Reigned 14 wks.—
17	\$		Fourth Sunday after Trinity
18	M	1876	W. Pare, First Sec. of Congress Board, died
19	Tu	1623	Pascal born
20	W	1837	Queen's Ascension
21	Тн	1884	Jos. Smith, Assistant Sec. Congress Board, died
22	F	1815	Nanoleon abdicated
23	S		Co-operative Wholesale Society Quarter Day
24	5		Wifth Sunday after Truthy
25	M	1884	Newcastle Drapery Warehouse opened
26	Tu	1830	George IV. died
27	W	1857	Cawnpore taken
28	Тн	1838	Coronation Day
29	F	1879	Victoria University chartered
30	S	1879	Goole Forwarding Depôt opened—S. C. W. S. Stock

July.

SUNRISE AND SUNSET.

1st Rises at . . 3 51 Sets at . . 8 5 | 15th Rises at . . 4 2 Sets at . 8 9 8th ,, . . 3 46 ,, . . 8 11 | 22nd ,, . . 4 10 ,, . . 8 1 . . 29th Rises at 4 20. Sets at 7 51.

RISING, SETTING, AND CHANGES OF THE MOON.

 1st Rises.
 1 16 morn.
 Sets 7 16 aft.
 15th Rises 7 21 aft.
 Sets 0 58 morn.

 8th
 ,,
 10 42 morn.
 ,,
 10 58 ,,
 22nd ,,
 9 55 ,,
 ,,
 8 48 ,,

 29th Rises morn.
 Sets 6 8 aft.

Day of Month.	Day of Week.	Year.	Remarkable Days, Festivals, Anniversaries, &c.
1	\$	1872	Manchester Boot and Shoe Department commenced
2	M	1867	Equitable Co-op. Building Society established
3	Tu	1881	DUNDEE BRANCH OF SCOTTISH C.W.S. OPENED
4	w	1776	Independence Day, U.S.A.
5	Тн	1849	Lord Gifford born
6	F		Length of day, 16h. 24m.
7	S	1888	Launch of s.s. " Equity "
8	2		Seventh Sunday after Trinity
9	M		Fire Insurance due
10	Tu	1509	John Calvin born
11	W	1450	Jack Cade killed
12	Тн	1869	Limerick Branch opened
13	F	1872	Ballot Act in operation
14	S	1873	Waterford Branch opened
15	\$		Gighth Sunday after Trinity
16	M	1876	Manchester Furnishing Department opened .
17	Tu	1845	Earl Grey died
18	w	1881	Dean Stanley died
19	Тн	1870	Lucien P. Paradol died
20	F	1873	Lord Westbury died
21	S	1887	Manchester New Furnishing Warehouse opened—Pur-
22	\$		[chase of s.s." Marianne Briggs," 1883
23	M	1833	
24	Tu	1851	Window Tax repealed
25	W	1883	Captain Webb drowned
26	Тн	1869	Irish Church Bill passed
$27 \cdot$	F	1880	Purchase of s.s. " Cambrian"
28	S		Nomination Lists: Last day for receiving
29	\$		Tenth Sunday after Trinity
30	M	1868	Thames Embankment opened
31	Tu	1556	Ignatius de Loyola died

August.

SUNRISE AND SUNSET.

 1st Rises at...
 4
 25
 Sets at...
 7
 46
 15th Rises at...
 4
 46
 Sets at...
 7
 21

 8th
 ,,
 ...
 7
 34
 22nd
 ,,
 ...
 4
 58
 ,,
 ...
 7
 7

 29th
 Rises
 at
 5
 9.
 Sets at
 6
 52.

RISING, SETTING, AND CHANGES OF THE MOON.

 1st Rises 3 39 morn.
 Sets 8 18 aft.
 | 15th Rises 7 29 aft.
 Sets 2 56 morn.

 8th ,, 9 57 ,, 29th Rises 2 39 morn.
 Sets 6 40 aft.

 New Moon, 1st
 0
 24 aft.
 Full Moon, 16th
 1
 17 aft.

 First Quarter, 8th
 10
 5 morn.
 Last Quarter, 24th
 5 40 morn.

Day of Month.	Day of Week:	Year.	REMARKABLE DAYS, FESTIVALS, ANNIVERSARIES, &C.
.1	w	1798	Battle of the Nile
2	Тн	1870	Battle of Sedan
3	F	1732	Bank of England started
3 4	S	1873	Cheshire Branch opened & Leicester Works purchase
5	\$	1876	Leicester Works First Extension opened
6	M		Bank and General Holiday
7	Tu	1821	Queen Caroline died
8	w	1827	George Canning died
9	Тн	1631	
10	F	1831	G. J. Goschen born
11	S	1863	Co-operative Wholesale Society enrolled
12	\$		Twelfth Zunday after Trinity
13	. M		Old Lammas Day
14	Tu	1880	Heckmondwike Boot and Shoe Works commenced
15	w	1771	Sir Walter Scott born
16.	Тн	1873	C. W. S. Insurance Fund established
17	F	1786	Frederick the Great died
18	S	1870	Battle of Gravelotte
19	\$		Thirteenth Sunday after Trinity
20	M	1868	Abergele Accident
21	Tu	1889	W. P. Hemm, director C. W. S., died
22	w	.1800	Rev. Dr. Pusey born
23	Тн	1862	CORNER STONE, BLACKLEY STORE, LAID
24	F	1572	Massacre of St. Bartholomew
25	S	1886	Longton Crockery Depôt opened
26	\$		Fourteenth Sunday after Trinity
27	M	1816	Algiers bombarded
28	Tu		Voting Lists: Last day for receiving
29	W	1887	Heckmondwike Currying Department commenced
30	Тн	1877	Battle of Plevna
31	F	1688	John Bunyan died

September.

SUNRISE AND SUNSET.

RISING, SETTING, AND CHANGES OF THE MOON.

First Quarter, 7th. 1 3 morn, | Last Quarter, 22nd . . . 0 32 aft. Full Moon, 15th 4 21 , | New Moon, 29th 5 44 morn.

Day of Month.	Day of Week.	Year.	REMARKABLE DAYS, FESTIVALS, ANNIVERSARIES, &C.
	S	-	Newcastle and London Branch and Divisiona
2	\$	1871	"Co-op. News" first issued [Quarterly Meetings
3	M	1878	SS. "Princess Alice" disaster
4	Tu	1870	French Republic declared
5	W	1800	Malta taken
6	Тн	1870	H.M.S. "Captain" foundered
7	F	1533	Queen Elizabeth born [com. Business, 1868]
8	S		General Quarterly Meeting-Scottish Wholesale
- 9	\$	1891	William Green, director C. W. S., died
10	M	1771	Mungo Park born
11	Τυ	1882	Capture of Tel-el-Kebir
12	W	1819	Blücher died
13	Тн	1884	LIFEBOAT "CO-OPERATOR No. 1" presented to R.N.L.I.
14	F	1852	Duke of Wellington died
15	S	1873	Leicester Works commenced
16	\$		Seventeenth Sunday after Trinity
17	M	1863	Paisley Manufacturing Society started
18	Tu	1854	Battle of Alma
19	W	1881	President Garfield died
20	Тн	1884	21st Anniversary of C.W.S., Commemoration of
21	F	1832	Sir Walter Scott died
22	S		Co-operative Wholesale Society Quarter Day
23	\$		Eighteenth Sunday after Trinity
24	M	1889	Eliza Cook (poetess) died
25	Tu	1870	Siege of Paris commenced
26	W	1857	Relief of Lucknow [Premises, Hooper Square
27	Th	1880	London Drapery Department commenced in New
28	F	1870	
29	S	1884	Bristol Depôt commenced - S. C. W. S. Stocktaking
30	\$		Aineteenth Sunday after Trinity

October.

SUNRISE AND SUNSET.

 1st Rises at ... 6
 2
 Sets at ... 5
 37 | 15th Rises at ... 6
 25 | Sets at ... 5
 6

 8th ,, ... 6
 13
 ,, ... 5
 21 | 22nd ,, ... 6
 37 , ... 4
 51

 29th Rises at 6
 50.
 Sets at 4
 37.

RISING, SETTING, AND CHANGES OF THE MOON.

1st Rises . 8 56 morn. Sets 6 6 aft. | 15th Rises 5 6 aft. Sets 7 12 morn. 8th ,, 3 41 ,, ,, 11 38 ,, | 22nd ,, 11 24 ,, ,, 2 48 aft. 29th Rises 7 53 morn. Sets 4 27 aft.

Day of Month	Day of Week.	Year.	Remarkable Days, Festivals, Anniversaries, &c
1 -	M		Cambridge Michaelmas Term begins
2	Tu	1786	Admiral Keppel died
3	W	1883	Burnham Beeches made public
4	Тн	1819	F. Crispi born
5	F	1874	Durham Scap Works commenced
6	S	1884	Launch of s.s. "Progress"
7	\$		Twentieth Sunday after Trinity
8	M	1871	Great Fire at Chicago
9	Tu	1759	Eddystone Lighthouse finished
10	W	1885	"Hell Gate" dynamited
11	Тн	1492	America discovered by Columbus
12	F	1886	Launch of s.s. "Federation"
13	S	1822	Canova died
14	5	1872	C.W.S. Bank Department commenced
15	M		Fire Insurance expires
16	Tu	1834	Houses of Parliament burnt
17	W	1874	First Hospital Saturday
18	Тн	1826	Last English Lottery
19	F	1745	Dean Swift died
20	S	1823	Thomas Hughes born
21		-	Twenty-second Sunday after Trinity
22		1890	Northampton Saleroom opened—Cardiff Saleroom
23	Tu	1869	Earl of Derby died [opened, 1891
24	W	1852	D. Webster died
25	Тн	1415	Battle of Agincourt
26	F	1859	"Royal Charter" lost
27	S	ļ	Nomination Lists: Last day for receiving
28			Twenty=third Sunday after Trmity
29			Hare Hunting begins
30		1841	. Great Fire at Tower of London
31	W	1882	Leeds Saleroom opened

Movember.

SUNRISE AND SUNSET.

1st Rises at . . 6 55 Sets at . . 4 32 | 15th Rises at . . 7 20 Sets at . . 4 9 8th ,, . . 7 8 ,, . . 4 20 | 22nd ,, . . 7 32 ,, . 4 1 29th Rises at 7 43. Sets at 3 54.

RISING, SETTING, AND CHANGES OF THE MOON.

 1st Rises.
 11 42 morn. Sets
 6 4 aft.
 15th Rises
 5 9 aft.
 Sets
 10 28 morn.

 Sth
 ,,
 2 40 aft.
 ,,
 1 2 morn.
 22nd
 ,,
 1 29 morn.
 ,,
 1 53 aft.

 29th Rises
 10 26 morn.
 Sets
 4 49 aft.

First Quarter, 5th 3 16 aft. | Last Quarter, 20th 2 8 morn. Full Moon, 13th 7 49 morn. | New Moon, 27th 8 54 ,,

Day of Month.	Day of Week.	Year.	REMARKABLE DAYS, FESTIVALS, ANNIVERSARIES, &C.
1	Тн	1882	Tea and Coffee Department, London, commenced
2	F	1887	London Branch New Warehouse opened-Manufac. of
3	S	1800	Battle of Hohenlinden [Cocoa and Chocolate com.
4	\$	1891	Wheat Sheaf Works, Leicester, opened
5	M	1861	HALIFAX INDUSTRIAL SOCIETY INAUGURATED
6	Tu	1860	Admiral Sir Charles Napier died
7	W	1801	R. D. Owen, reformer, born
8	Tin	1886	Trial trip s.s. "Federation"
9	F	1841	Prince of Wales born .
10	S	1483	Martin Luther born [Depôt new premises opened, 1889]
11	\$	1887	Manchester Ship Canal, first sod cut-Longton
12	M	1849	Brunel (Thames Tunnel engineer) died
13	Τυ	1851	Telegraph between England and France completed
14	W	1844	Abercrombie, metaphysician, died
15	Тн	1871	Stanley discovered Livingstone
16	F	1891	Aarhus Branch opened
17	S	1858	Robert Owen died
18	25		Twenty=sixth Sunday after Trinity
19	M	1758	British Museum established
20	Tu	1869	Suez Canal opened
21	W	1835	The "Ettrick Shepherd" died
22	Тн	1804	Rochdale Canal opened
23	F	1641	Irish Rebellion
24	S	1879	Sergeant Cox died
25	\$		Twenty=seventh Sunday after Trinity
26	M	1871	Opening of Newcastle-on-Tyne Branch
27	Tu		Voting Lists: Last day for receiving
28	W	1814	Times printed by steam
29	Тн	1889	Martin F. Tupper died
30	F		St. Andrew's Day

December.

SUNRISE AND SUNSET.

RISING, SETTING, AND CHANGES OF THE MOON.

 1st Rises.
 11 43 morn.
 Sets 7 5 aft.
 | 15th Rises 6 50 aft.
 Sets 10 53 morn.

 8th
 ",
 1 17 aft.
 ",
 2 23 morn.
 22nd
 ",
 3 20 morn.
 ",
 0 39 aft.

 29th Rises 10 9 morn.
 Sets 6 4 aft.

Day of Month.	Day of Week.	Year.	Remarkable Days, Festivals, Anniversaries, &c.
1	s		Newcastle and London Branch and Divisional
2	\$		Advent Sunday [Quarterly Meetings
3	M	1821	Lord Coleridge born
4	Tu	1795	Thomas Carlyle born
5	W	1870	Rome made Italian Capital
6	Тн	1882	Trollope, novelist, died [from Eastham to M'chester
7	\mathbf{F}	1893	Directors of Ship Canal sailed on s.s. "Snowdrop"
8	S		General Quarterly Meeting
9	\$		Second Zunday in Advent
10	M	1768	Royal Academy founded
11	Tu	1869	Edward Hooson, director C.W.S., died
12	W	1757	Cibber died
13	Тн	1884	Attempt to blow up London Bridge
14	F	1861	Prince Consort died
15	S	1891	Samuel Taylor, director C.W.S., died
16	\$		Third Sunday in Advent
17	M		Oxford Michaelmas Term ends
18	Tu	1862	Slavery abolished in the United States
19	W	1805	Lord Beaconsfield born
20	Тн	1848	Napoleon elected President
21	F	1888	J. J. B. Beach, director C.W.S., died
22	S		Co-operative Wholesale Society Quarter Day
23	\$		Fourth Sunday in Advent
24	M	1863	Thackeray died
25	Tu		Christmas Dav-Oldham Indus. Socy. com., 1850
26	W		Boxing Day—Bank Holiday
27	TH	1834	Charles Lamb died
28	F	1802	Earl Grey born
29	s	1809	Rt. Hon. W. E. Gladstone b.—S. C. W. S. Stocktaking
30	\$	1885	C.W.S. Fire, London Tea Department
31	M	1882	Gambetta, statesman, died

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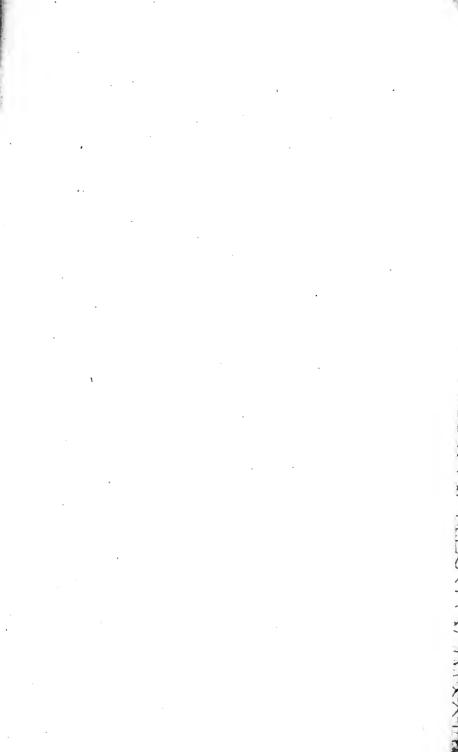


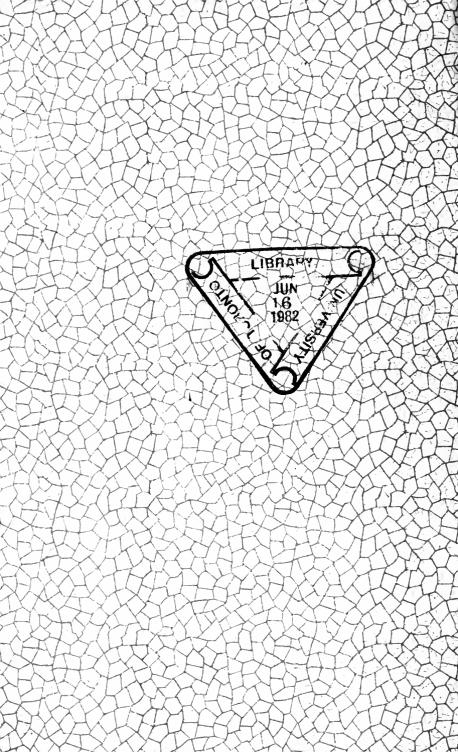
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