Census 1881—Glasgow

The

Decennial Census

As a Basis for the Statistics of Intervening Years,
Illustrated by the case of Glasgow, with

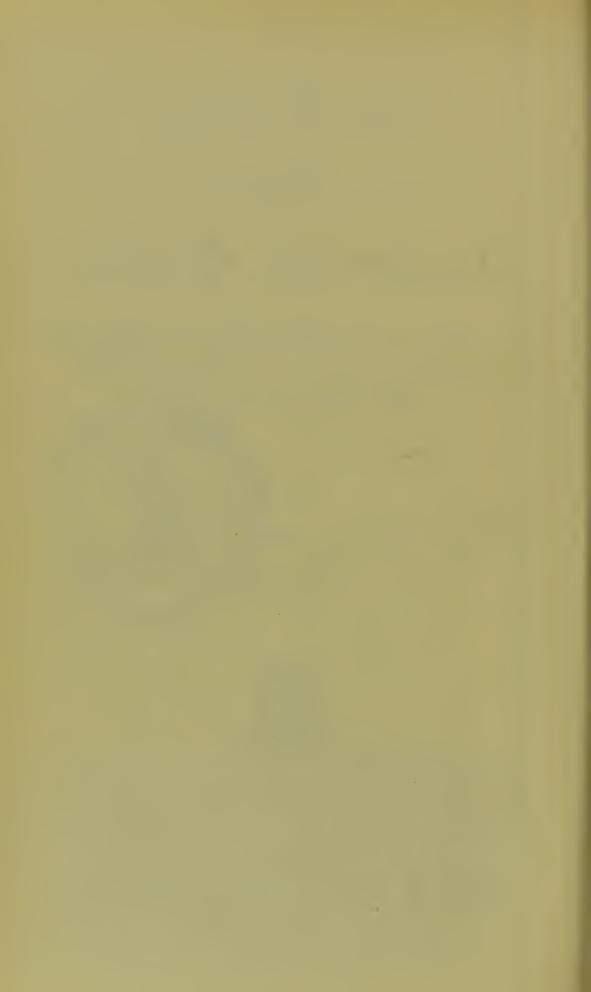
Tables derived from Census

by

The Medical Officer of Health of Glasgow

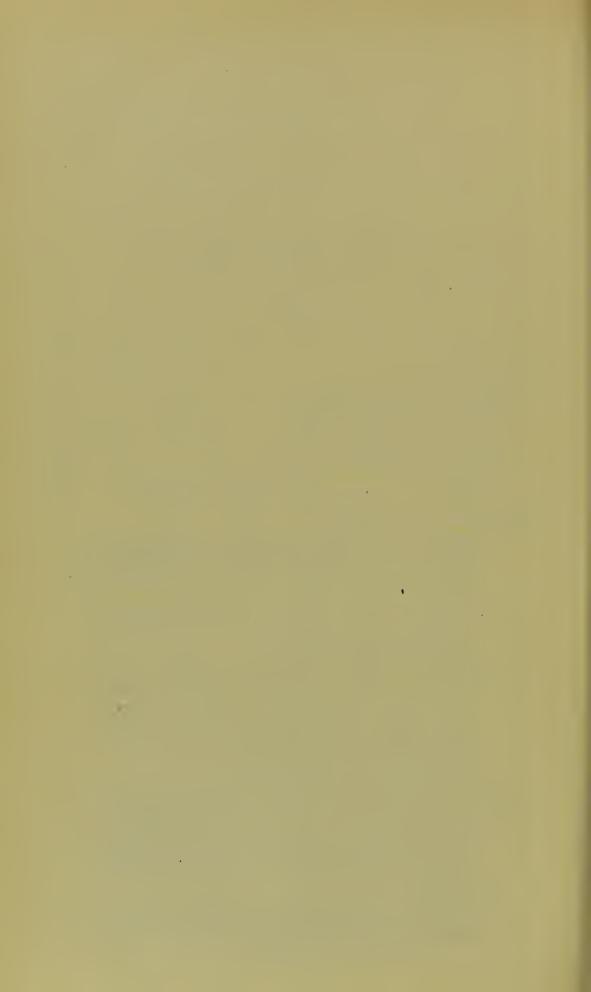


Glasgow
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PREFATORY NOTE.

THE Enumeration Books of the Census were, in accordance with Act of Parliament, in the case of the Eight Principal Towns of Scotland, lodged with their Chief Magistrates on or before 23rd April, and were required to be revised by them and transmitted to the Registrar-General in Edinburgh on or before 4th May. As it was only by reference to the original records of the Census, and the redistribution of every entry therein, that information as to the population and their ages, &c., of the twenty-four Divisions into which the City is divided for statistical purposes by the Sanitary Department, could be obtained, application was made by the Lord Provost to the Home Secretary for permission to extract the requisite data during the few days in which these documents were in his custody. The required sanction was obtained, with the concurrence of the Registrar-General. The Magistrates and Town Council sanctioned an expenditure not exceeding £150. A large staff of clerks was engaged, under the supervision of Mr. George M'Kay, Statistical Clerk in the Department, in the commodious rooms of the Lands Valuation Office, and succeeded, by working extra hours, in extracting the data which form the basis of the Tables appended to this Report in six days. It was necessary to limit the scope of the enquiry, but within this limit the information is accurate and valuable.

The remarks prefixed are solely directed to the application of Census data to the estimation of the number and ages of the population in the interval between one Census and

another. These are cast in the form of a comparison between the decade 1871-80, as estimated in prospect and in retrospect, for, as is illustrated from the case of Glasgow, the annual data of such a lengthened period as ten years in the life of a commercial population are in both cases more or less of an *estimate*, and one with considerable range of possible error.

J. B. R.

SANITARY DEPARTMENT, GLASGOW, December, 1881.

THE DECENNIAL CENSUS, &c., &c.

When the population of the City of Glasgow was numbered on 4th April, 1881, there were two distinct estimates in use—one by the Registrar-General for Scotland, the other by the Medical Officer of Health for the City. The result of the Census was to show that both the estimates were in excess of the actual population. The following are the respective figures:—

 Aetnal Population on 4th April,
 ...
 511,520*

 Medical Officer's Estimate,
 ...
 ...
 538,128, or + 26,608

 Registrar-General's do..
 ...
 601,266, or + 89,746

These two estimates represent two different methods of arriving at the annual populations in the interval between one Census and another; and, since estimates must continue to be made, and there are only these two ways of making them, it becomes important to investigate somewhat closely the circumstances under which they both failed in this instance to yield accurate results. The method of the Registrar-General is to assume that the rate of increase, as ascertained from the two immediately-preceding enumerations, continues the same during the currency of the following ten years. Each year's increment is supposed in following years to produce a propor-

^{*} The Registrar-General gives 511,532 in his preliminary Census Tables. I retain the total given by the tabulation of the enumeration books for the statistical purposes of the department earried ont under my own supervision. Until every entry has been scrutinised and verified, such trifling discrepancies will exist between summations from different sources, but they are of no practical moment.

tional increase, as in compound interest, so that the aggregate at the close of the decade is greater than merely the percentage of increase calculated on the preceding Census and added to the last. The method adopted by the Sanitary Department is to ascertain from the number of houses inhabited by the Census population the average number of inhabitants per house, and then in each succeeding intercensus year to apply this average as a multiplier to the number of inhabited houses for that year entered on the roll of the City Assessor. As the accuracy of the former method depends upon the continuance of, the rate of growth, so the accuracy of this depends upon the continuance of the same average number of inmates in the inhabited houses of the City.

THE RATE OF GROWTH OF GLASGOW.

The Registrar-General's method, judged by the comparison of its results with the results of the Census of the 8 large towns of Scotland, and the 20 large towns of England, is evidently one which leads to serious errors. The Census is taken at the close of the first quarter of the year, and in order to obtain the population at the middle of the year, a quarter's increase, at the rate of growth of the previous ten years, is added. Comparing the population in 1881, derived in this way from the Census, with that as estimated for the cities, and used in all calculations of death-rates, in the Scotch returns, up to 25th June, in the English, up to 28th May, we ascertain the discrepancies between the estimated and the actual. Calculating the difference as a percentage upon the true population, we find that, in the Scotch towns, the true population was, in

Greenock,	18:34 pe	er cent. less.	Paisley,	12:09 per	r cent. more.
Glasgow,	17:42	do.	Perth,	10.59	do.
Dundec,	11:39	do.	Leith,	2.65	do.
Edinburgh,	2.03	do.	Aberdeen,	0.28	do.

The difference in the case of Aberdeen is so small that the

estimated may be said to have agreed with the actual population, but, in the case of the other towns, the difference is more or less serious.

Comparing the English towns in the same way, we find that the true population was, in

```
. 10:59 percent. less. | London,
                                                    3.21 per cent. more.
Bradford, .
Sheffield, .
                                    Norwich,
                                                    1.81
                                                              do.
                 9.56
                           do.
                                                    1.40
                                                              do.
Leicester, .
                  9.12
                           do.
                                    Hull, .
                                                              do.
Manchester,
               . 6.79
                           do.
                                    Liverpool,
                                                   0.74
                                                              do.
                                    Birmingham,
                                                    0.40
Portsmouth,
               . 6.49
                           do.
                5.04
                           do.
Leeds,
Bristol, .
                           do.
Newcastle-on-Tyne, 4.21
                           do.
                           do.
Sunderland,
Wolverhampton,
                  1.20
                           do.
Brighton, .
                  1.04
                           do.
Plymonth, . . 1.58
                           do.
```

In the case of three towns—viz., Nottingham, Salford, and Oldham—owing to representations made to the English Registrar-General, estimates amended from returns of inhabited houses had been adopted, but the result was not favourable, for the true population was found at the Census to be, in

```
Salford, . 9:17 per eent. less. | Nottingham, . 5:89 per cent. more. Oldham, . 6:66 do.
```

These figures prove incontestably that the rate of growth of towns is so variable that the rate of one decade affords no presumption of the rate of another. As a matter of fact, the majority of the English towns, and the most important of the Scotch have, during the decade 1871-80, fallen far short of their development in the decade 1861-70. The three English towns whose estimates were amended remarkably exceeded their former rate of growth, although the attempt to gauge that excess from the inhabited houses failed so decidedly. In Scotland, Paisley and Perth also shot ahead, while Greenock and Glasgow fell far behind. The following are the rates of increase of the eight Scotch towns in the last

two decades, arranged in the order of the decade 1871-80:-

			1871-80.		1861-70.
Leith, -	-	-	31.73	•••	28.87
Aberdeen,	-	-	19.13		19:32
Dundee,	-	-	18.00		31.70
Edinburgh,	•	-	15.48	• • •	17:51
Paisley,	-	~	15:30		1.75
Greenock,	-	-	15.22		36.22
Perth,		-	12.79		1:10
Glasgow,	-	-	4.00		21.64

Glasgow occupies the unique position in the whole kingdom of having the smallest increase. The lowest rates of urban growth in the country, excepting Glasgow, are those of Norwich and Plymouth, and these are more than twice as great as that of Glasgow, and in place of being less than one-fifth of the growth of the preceding decade, as in the case of Glasgow, their rates are in one case greater, and in the other almost as great. The case of Manchester deserves special mention, as, while in 1861-70 it increased only 3.7 per cent., in 1871-80 it actually decreased 2.8 per cent.; but as the Registrar-General justly remarks: "With this must be taken into consideration the fact that the closely-adjoining town of Salford showed an increase of no less than 41.2 per cent. Taking the two continuous towns together, there was an increase of 8.8 per cent.*

Before taking up the suggestion of this statement with regard to Manchester, and inquiring whether we shall discover the lost population of Glasgow proper in our suburbs, there are two facts which it is important to note. The first is that both Scotland and England have grown in population in the decade 1871-80 at a rate exceeding that observed in any decennial period, in the former since 1821-30,† in the latter since 1831-40.‡ The other fact is that, taking the population of England as a whole, it is found that the "natural increment of the people," or the surplus of births over

^{*} Census of England and Wales, 1881. Preliminary Report, p. viii. + Census of Scotland, 1881. Preliminary Tables, p. iv.

[‡] Census of England and Wales, 1881. Preliminary Report, p. iii.

deaths, gives within 74 per cent. of the actual increase of population. The meaning of this fact cannot be more clearly expressed than in the words of the English Registrar-General *—"The difference between the total number of births and the total number of deaths in the ten years, or 'the natural increment' of the people, amounted to 3,425,982, or to an increase of 15.08 per cent. upon the population at the beginning of the period; and as the actual increase, as determined by enumeration, was 14.34 per cent., the combined effects of all the other movements of the population, including emigration and immigration, resulted in a loss of no more than 0.74 per cent in the whole period." In the two previous enumerations this loss was less.

The case of Glasgow is very different. The actual increase within the Burghal limits was, as we have seen, 4 per cent. The surplus of births over deaths within the same limits during the ten years shows a "natural increment" of fully 12 per cent. Therefore there has been a balance of loss by emigration beyond those limits of 8 per cent.

In order to obtain a trustworthy estimate of the growth of a population, we must first determine accurately the area of the earth's surface upon which they live. This area must always be the same. The history of the development of Glasgow is peculiarly difficult to trace correctly, because of the confusion of boundaries. The area which is designated Glasgow is not always the same. There is Parliamentary Glasgow and Burghal Glasgow, and there are the Suburbs of Glasgow. The Burghal Glasgow of one Census is not that of another, and the Registration Burgh of Glasgow has not always embraced the whole actual Burgh. The Suburbs of one Census are not the Suburbs of another, partly from the inclusion within Glasgow proper of districts previously treated as suburbs, and partly from districts further a-field being, by the compilers of successive enumerations, embraced within what they please to call Suburbs. These puzzling variations have been discussed and explained by the present City

^{*} Census of England and Wales, 1881. Preliminary Report, p. iii.

Chamberlain in his Report upon the Statistics of Glasgow for 1868, pp. 43-45.

The boundary of Glasgow which has been longest without change is the Parliamentary, fixed by the Reform Act of 1832, and to this day absolutely unaltered. In 1846 the Municipal boundary was made co-extensive with the Parliamentary; but, by the Municipal Extension Acts of 1872 and 1878, about 1,048 acres, with the population thereon, have been added to the Municipality, so that to that extent it extends beyond the Parliamentary arca. It follows, therefore, that to trace the development of the population within either Parliamentary or Municipal Glasgow, as defined in 1881, it would be necessary to determine at each Government Census, back to the first in 1801, the population living on the present superficies of those areas—an almost impossible task. The Scotch Registration Act came into force on 1st January, 1855, and the Parliamentary boundary was the limit of the Registration area of Glasgow until 1st January, 1875, when it was entirely changed, both by a new subdivision of the area within the City (including, for the first time, for Registration purposes, the portions added to the Municipality in 1872), and also by extension, so as to embrace, under the designation "Landward," certain suburban districts—thus still further complicating and adding to the risks of statistical fallacies in any attempt to trace the development of the community.

In 1875, when this rearrangement of the Registration subdivisions of Glasgow was made, the Registrar-General, with the materials to which he alone has access, went back upon the Census records of 1861 and 1871, and determined the population within the same boundaries, with the following

result:--Total. Landward. Burghal.* 409,921 404,314 5,6071861, ... 508,320 1871, ... 491,846 16,474 550,641 39,121 511,520 1881, ...

^{*} It must be carefully noted that the population here called Burghal in 1861 and 1871 is not the real Burghal population of those years, but the population on the area which is Burghal in 1881.

The "Landward" portions of the Registration area of Glasgow embrace so much of the present "suburbs" of Glasgow as are known by the designations of the Burghs of Kinning Park and Govanhill, the two Burghs of Pollokshields, the districts of Strathbungo and Polmadie, and an extensive area stretching eastwards along Cumbernauld Road, and north of Springburn. This obviously leaves out large and populous suburban areas, but it gives us a strictly correct basis of comparison so far as it goes, and shows the development of what the Registrar-General has constituted the Registration area of Glasgow.

Burghal Increase, No. Per cent. No. Per cent. No. Per cent. 1861-71, ... 87,532 21.65 .. 10,867 193.8 ... 98,399 24.00 1871-81, ... 19,674 4.00 ... 22,647 137.4 ... 42,321 8.30

These figures speak for themselves. They show that, even including so much of the suburbs of Glasgow as are comprised within the Registration area, the development during last decade is only one-third of the development during the decade preceding.

But we may obtain a sufficiently correct and comparable observation of the development of Glasgow, with all the more important suburbs. At p. 69 of the City Chamberlain's Report for 1880 there is a statement of the increase of the "city and suburbs" between 1871 and 1881. At p. 89 of his Report on the Census of 1871 we find a statement of the increase of "Glasgow and its suburbs" between 1861 and 1871; but Rutherglen, Pollokshaws, Cathcart, Crosshill, Mount Florida, Langside, and Crossmyloof are included in the former statement and not in the latter. It is scarcely justifiable to include either Rutherglen or Pollokshaws. Therefore, excluding these from 1881, and adding the Registration District of Cathcart, which embraces Crosshill, Mount Florida, &c., to 1861 and 1871, we get the following view of the recent development of everything that can fairly be called Glasgow and its suburbs:

1861,		Population,		Increase.	Ra	te of Increase.
1001,	• • •	450,174		mount.		
1871,	***	573,381	• • •	123,207		27:36
1881,	• •	681,222		107,841		18.80

These figures show that Glasgow, as a community, throwing aside all artificial subdivisions, diminished its growth during the last, as compared with the former decade, by a third. If, now, we divide this community into two parts—one Burghal, in the sense described above, viz., the population on the Burghal area of 1881, and the other suburban—we get an interesting and important observation of the rate of development of these populations living on areas which are exactly the same at each enumeration, the one being urban and centric, the other suburban and excentric.

		Burghal.	Suburban.	Total.
1861,		404,314	45,860	$450,\!174$
1871,		491,846	81,535	573,381
1881,	•••	511,520	169,702	681,222
Increase—				
1861-71,		87,532	35,675	123,207
1871-81,	• • •	19,674	88,167	107,841
	or	21.65 per cent. 4.00 do.	77·79 per cent. 108·13 do.	27.36 per cent. 18.80 do.

These figures, looked at as they stand, seem to show that the falling off in the rate of development of Glasgow, as defined by the municipal boundary, arose, at any rate in great part, from the emigration of her population to the suburbs. Still, it is also the fact that the rate of growth of the entire community was one-third less in the last decade than in the preceding; and if the suburbs added 108 per cent. to their population in the face of the adversity of the times, we can hardly set limits to their possible increase had the times been prosperous.

INHABITANTS PER HOUSE IN GLASGOW.

The Medical Officer's Estimate of the population of Glasgow was 538,128, or 26,608 above the actual population, as ascertained by the Census. This is a much less discrepancy than that of the Registrar-General, but still sufficiently serious to necessitate an endeavour to discover its cause. It is evident that the variations in the decennial rate of growth of cities is

such that a decennial Census is practically useless as a basis for the determination of the population in intermediate years. The only other method is, that based on the assumption that the average number of inhabitants per house is stable from year to year, so that, if we can get a correct return each year of the number of inhabited houses, the application of this multiplier should give a sufficiently close estimate of the population. In a population of half a million an error of 5,000 is of no practical importance in calculating death-rates, and even 10,000 would not be very serious. On the other hand, in multiplying 100,000 inhabited houses, a very slight error in the decimals of the multiplier will produce an error in the population beyond those practical limits of accuracy. Any considerable mistake in the multiplicand has the same effect.

Owing to the continuance of the absurd imposition upon the Scotch enumerators at the Census of 1871 of the English definition of a house, which is equivalent to a Scotch tenement, comprising many "houses," there was no return obtained by them of houses according to the proper Scotch acceptation of the term. The multiplier was therefore determined from the Assessor's return for 1872, applied to the estimated population for that year. It was found on these data to be 4.827 inhabitants per house $(\frac{4.9.6.0.1.0}{1.0.2.7.4.9})$, excluding the population in the harbour and institutions (6867), as should always be done. Had the Assessor's return for 1871 been applied to the Census population, with the deduction noted, the multiplier would have been $\frac{48.3}{100} \frac{5.75}{5.6} = 4.793$. But the error thus instituted, the adoption of a multiplier '034 persons per house too high, grew from year to year, because the multiplier of each of the 24 statistical subdivisions of the City had to be determined and applied to the number of inhabited houses in each, and the population of the whole City was obtained from the summation of the populations of the districts, not from the application of one multiplier to the number of inhabited houses in the whole City. I find the supposed average of inmates per house in this way crept up

until, in 1878, it was 4.86, at which it has continued since. In place of this the Census has shown the average to be (omitting institutions and harbour), $\frac{5.0.3.7}{1.0.6.3}\frac{4.4}{1.7}=4.738$ persons, or 122 persons per house fewer.

We have therefore this series:—

 Inhabitants per House—Census 1871, ...
 ...
 ...
 4.793

 Do.,
 do.,
 1881, ...
 ...
 ...
 4.738

 Do.,
 do.,
 As used for Medical Officer's Estimate,
 4.860

So much for the multiplier. Now for the multiplicand, or number of inhabited houses. This, as stated in my Quarterly Reports, was supplied at the beginning of each year by the City Assessor, made up from the valuation roll as revised in February. The return received for 1881 was 109,279, which, multiplied by 4.86 and 7,000 added for institutions, gave our estimate of 538,128, which was 26,608 above the actual population. If we multiply by 4:793, the correct average per house in 1871, we get (with 7,000 added as before) 530,774, or 19,254 above the actual population. The small diminution of '067 in the multiplier means a diminution of the estimate by 7,354 inhabitants. place of 109,279 inhabited houses, the Census gave 106,317. If we multiply this by 4.793 (adding 7,000 as before) we get 516,577, which is only 5,057 in excess of the actual population—less than 1 per cent. of error, or within the limits of practical accuracy, as appears when we calculate the deathrate, for example, from 13,303, the number of deaths in 1880. The Census population gives exactly 26 per 1,000, the estimate made from correct data, 25.75, which would be returned as 26 per 1,000 also.

This is so far reassuring as to the accuracy of the method of estimating from inhabited houses. But two questions must, with a view to the future, be more carefully considered.

(1) How did this error in the return of inhabited houses arise? (2) What is to be said regarding the decrease in the average number of inhabitants per house from 4.793 in 1871 to 4.738 in 1881?

As to the number of inhabited houses, if reference be

made to the City Chamberlain's Annual Reports—which constitute a valuable repertory of statistical facts concerning the City—there will be found statements of the number of occupied and unoccupied dwelling-houses obtained from the City Assessor. I have collected these statements for each year of the decade, and placed beside them the corresponding statements supplied to the Sanitary Department as the basis of our annual estimates of the population, and so formed the following Table:—

INHABITED HOUSES.

	City C	HAMBERLAIN'S STAT	гемент.	CITY Assessor's
	Parliamentary Burgh,	Municipal but not Parliamentary.	Total.	STATEMENT TO SANITARY DEPARTMENT.
1871,	98,414	2,462	100,876	
1872,	100,177	2,571	102,748	102,749
1873 1,	101,902	3,141	105,043	105,013
1874,	103,423	3,483	106,906	107,253
1875,	103,696	3,787	107,483	109,069
1876,	104,530	4,201	108,731	109,761
1877,	105,062	4,428	109,490	111,484
1878 2	104,496	4,440	108,936	111,002
1879,	102,448	4,441	106,889	109,700
1880,	101,575	4,439	106,014	109,541
Census 1881	101,793	4,524	106,317	109,279

Municipal Extension Act (1872) took effect.
 Do. do. (1878) do.

There is here a very serious discrepancy. Fortunately for the future, the cause of it will be obvious when it is explained that the statement supplied to the Sanitary Department was made up from a revise in February of the year to which it applied, of the roll for the previous year. The houses occupied which were previously unoccupied were noted, but the difficulty was to ascertain how many of these new occupancies were simply transfers from one house within the municipal limits to another. In times of commercial activity, and consequent rapid urban growth, when the town, so to speak,

was full and empty houses scarce, a large proportion would be really new householders, additions to the inhabitants; but in times of depression and urban decadence, when empty houses were abundant, and opportunities tempting and frequent for change of residence in search of lower rents or of employment, then the proportion of householders really new to the City would be small. In the effort to balance the absolute result of these changes in circumstances so different and difficult of estimation, the number of inhabited houses came more and more to be over-estimated. The provisional estimate of February was supplied to meet our urgency to ascertain the population early in the year for use in the returns made fortnightly, and especially for the Quarterly Reports. On the other hand, the statement supplied to the City Chamberlain was compiled from the Statutory Assessment Roll, as finally adjusted in June of each year, when all these sources of error had been eliminated. If this return for 1880 is compared with the results of the Census in 1881, remembering the low vitality of the community, the agreement is such as to stamp the whole series of statements made to the Chamberlain as practically accurate. In future, then, the Sanitary Department will be supplied with a statement of the inhabited houses from the roll as completed in June of each year, which is also the centre of the year, to which the Registrar-General always adjusts his estimates.

As to the variations between one Census and another in the number of inhabitants per house, we have seen that, so far as the range of variation between 1871 and 1881 extends, provided the number of inhabited houses is accurate, it would not seriously affect the estimate of population. But, having reference to the future, it becomes important to ascertain, as a matter of experience, to what extent this interesting item of social statistics has varied from Census to Census in Glasgow. Unfortunately, the data for the determination of the question have, until last Census, been haunted and deranged by the importation into Scotch enumerations of those English

notions of the definition of a house to which allusion has already been made. Still, from independent local efforts, trustworthy information was, after 1811, obtained. In the following Table I have collected information as correctly as possible from the sources indicated on this and other matters.

Authority.	Persons Per House (with Institutions and Harbour). Persons Per House (without Institutions and Harbour).	Rooms per House.	Inmates per Room.	Per cent. Unoccupied Houses.	Per cent. Irish.
I. 1801 I. 1811 I. 1819 II. 1821 III. 1831 (1841) 1851 (1871) 1881	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2·283 2·283 2·292 ⁴ 2·307 ⁴ 2·342 ⁵	2·050 2 2 2 2·088 4 2·104 4 2·054 5	$\begin{array}{c} 5\frac{1}{2} \\ 3\frac{4}{5} \\ 4 \\ 5\frac{7}{10} \\ 4 \\ 4\frac{1}{5} \\ 2\frac{4}{10} \\ 4\frac{6}{10} \\ 2 \\ 10\frac{7}{10} \end{array}$	10 3 10 10 10 10 10 10 10 10 10 10 10 10 10

^{1.—}Enumeration of the Inhabitants of the City of Glasgow. Dr. Cleland, 1820, pp. 5 and 6. 11.—Enumeration of the Inhabitants of Scotland, &c. Dr. Cleland, 1823, p. 52.

Beginning with Dr. Cleland's elaborate and careful special Census in 1819, we have a succession of trustworthy data. These show that the average number of inmates per occupied house has considerable limits of variation. Excluding institutions and Harbour, the highest was 5.05 in 1841 and 1851, the lowest 4.681 in 1819—a range of 369. The high average in those two years is not explained by Dr. Strang. Probably it arose from the excentric growth of the City, comprising the larger class of houses, not being yet projected beyond the bounds. It is at any rate remarkable that the average per house in the suburban parts of

^{111.—}Enumeration of the Inhabitants of the City of Glasgow and County of Lanark for the Government Census of 1831, &c. Dr. Cleland, 1832, p. 209,

¹V.-Watt's, Strang's, and Watson's respective Census Reports.

¹ Includes Children both whose parents were Irish.

^{2 &}quot;For every apartment there are two persons to occupy it."-Note by Dr. Cleland.

^{3 5.15} for City and Suburbs.

⁴ Parliamentary Burgh.

⁵ Municipality.

⁶ The average over the whole Registration Area is 4.76.

the present Registration area is 5.082. Comparing the condition of the City as to house-accommodation, as disclosed by the recent Census, with its condition at those preceding, we observe that the number of persons to each house is lower than in 1871, but not so low as in 1861; that the average size of the houses is more commodious now than in 1819, as regards the number of rooms, and relatively to the number of inmates per room about the same. Probably the fact which is at the bottom of this increase of house-room is the last which this Table proves with reference to accommodation—that the number of unoccupied houses is about 11 per cent. of the whole, nearly twice the proportion of which there is any record at any period, the next highest being $5\frac{7}{10}$ in 1821. That this is the explanation seems confirmed by the circumstance that in 1871, when the proportion of empty houses was only 2 per cent.—the lowest on record—the number of inmates per house was higher than at any Census since 1851, and the number of inmates per room was the highest on record. Apparently the most general expression of the meaning of these figures is that in times of great prosperity and rapid growth there is a tendency to overcrowding of the house-accommodation, and that one of the effects of the opposite condition of city life is not only to diminish the population by reducing the householders, but to reduce the size of the families by driving out lodgers, and leading to the emigration of adults in search of employment. Therefore, from a sanitary aspect, the conditions of health of the remaining population are improved by the thinning of the inhabitants, and the consequent increase of air-space.

It must not be forgot that, within the period intervening between the Census of 1871 and that of 1881, the operations of the Improvement Trust have been carried out. The Improvement Act was passed in 1860, and involved a population of over 51,000 persons, living in some 10,000 houses. The work of demolition was begun in 1870, and has been in great part completed, but reconstruction has not gone far, as

is evidenced by the large houseless tracts of ground waiting for feuars. The Streets Improvement Act (1873) extended those operations. The effect upon the people displaced has been, as I have proved in special Reports, by following them to their new habitations, to improve the character of their houses both in size and situation. My object now is not to discuss these advantages, but to point out the disturbing influences at work in the community which tended to upset the application of the social statistics of 1871 to the following years; and, when we add the local redistributions, and the general attendant bouleversement of the central parts of the City caused by those Acts, and by various huge railway schemes, to the abnormal forces of commercial depression and consequent depopulation, it must be admitted no more complicated problem could be presented to a statistician than is implied in the effort to obtain a firm footing in the midst of such internal revolutions.

We are, indeed, in possession of exact figures as to the comparative housing of the population at different points in the last decade, so far as this can be estimated by the number of apartments per house. The following statement shows the classification of the total houses (occupied and unoccupied) in the City in 1873 (the earliest year for which I have the information) and in 1880:—

1873,35,037 1880,35,843	2 Apts. 45,828 52,693	3 Apts. 14,090 17,746	4 Apts. 5,521 6,623	6,361	7 Total. 106,837 119,128
Difference, +806 Do. per cent., +2·3	+6,865	+3,656 $+26$	+1,102 +20	-138 -2	+12,291
Percentage, 1873, 32.80 Do., 1880, 30.08	42·90 44·23	13·19 14·88	5·16 5·56	5·95 5·22	
Difference, -2.72	+1.33	+1.69	+0.40	-0.73	

So that Glasgow, while still and increasingly a city of small houses (89.2 per cent. being houses of 1, 2, and 3 apartments in 1880, against 88.8 per cent. in 1873), has a smaller proportion of single apartment houses and a larger proportion of houses of 2 and 3 apartments than in 1873.

The number of houses of 5 apartments and upwards bears such a small proportion to the whole that, although they are now absolutely less by fully 2 per cent. than in 1873, the average shows a general improvement in this important matter of house-room. Hence the larger average of rooms per house, and the lower average of inmates per room, shown in the Table. Although a considerable proportion of the smaller houses is produced by the vicious method of "making down" larger houses—i.e., subdividing the houses of 4 apartments and upwards into smaller occupancies —there has been an enormous development in the building of small houses in the decade. From the column in Table, p. 27, which shows the yearly number of houses in the tenements for the erection of which the sanction of the Dean of Guild Court was obtained, it will be seen that the aggregate amounts to 33,395. Of these 23 per cent. were houses of 1 apartment, 50 per cent. of 2 apartments, 19 per cent. of 3 apartments, and only 5 per cent. of 4 apartments and $2\frac{1}{2}$ per cent. of 5 apartments and upwards. These new houses alone would accommodate a population of 158,000 souls!

It is evident also that of the 119,000 occupied and unoccupied houses in existence on 4th April, 1881, no less than 28 per cent. had been built during the previous ten years! That is to say—supposing on 1st January, 1871, the first stone of this new Glasgow had been laid, we should now have a city considerably larger than the Dundee of to-day, or the Glasgow of 1821.

AGES OF THE POPULATION.

Having estimated the population living in the inter-census years, the total has to be subdivided into those living at certain ages. For this also we have to go back to the Census, and to assume that the proportion enumerated at each period in the Census year continues the same at each year of the ten. Here, too, we make an assumption which, through the operation

of obvious natural causes, may be made erroneous. depend in the main upon marriages, and marriages are greatly influenced by the prosperity or dulness of trade in the community—conditions which also attract new life to the City, or drive out adults in search of employment. The intervention of epidemics is another important factor; and of these, some cut off adults chiefly, others affect children. Cold winters and warm summers bring ill health and a high mortality—the former among the aged, the latter among the young. is every probability, therefore, that the number living at the various periods of life will not constitute a constant proportion of the whole population throughout such a stretch of time as a decade. What is the actual experience comparing one Census with another? The following Table gives the result of seven successive enumerations of the population of Glasgow, the periods of life being those selected in the local and national returns of mortality hitherto—five in number—from 1841 downwards:-

	Under 1.	1 то 5.	Under 5.	5 то 20.	20 то 60.	60 and Above.
1821 1831 1841 1851 1861 1871 1881	2·96 3·24 3·39 3·40 3·10	9·94 9·19 10·58 10·33 10·57	14·45 14·96 12·90 12·43 13·97 13·73 13·67	34·08 33·43 32·36 31·96 30·50 31·28 31·17	46·15 46·56 50·51 51·24 50·84 49·99 49·89	5:30 5:05 4:22 4:37 4:69 4:99 5:26

These figures are very interesting as a series, but to us the interest at present lies in the comparison of the results in pairs, and observing how far the former is from being a forecast of the latter. The following is a Table of Differences in which, opposite each year, is given the difference between the enumerated proportion of that year and that of the previous year, indicating the actual as more or less than the estimated:—

	Under 1.	1 to 5.	Under 5.	5 to 20.	20 to 60.	60 & above.
1821-31,	+ 0.28 + 0.15 + 0.01	$\begin{array}{c} \dots \\ -0.75 \\ +1.39 \\ -0.25 \\ +0.24 \end{array}$	$ \begin{array}{r rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	- 0.65 - 1.07 - 0.40 - 1.46 + 0.78 - 0.11	+ 0.41 + 3.95 + 0.73 - 0.40 - 0.85 - 0.10	$ \begin{array}{r} -0.25 \\ -0.83 \\ +0.15 \\ +0.32 \\ +0.27 \end{array} $

As in the case of the aggregate population, so in the case of these subdivisions of it, the practical question is, Are these differences beyond the limits of accuracy? This depends upon the proportion of the error to the correct number. differences in the proportions living under 5 and above 60, and in the other periods, would be trifling at the other periods even if serious in them, because of the small numbers. It is apparent that, on the whole, the discrepancy between the last Census and the previous has been less than between any preceding pair of enumerations—i.e., the population has been more stable in its composition as to age, the chief change being a smaller proportion of children and a larger proportion of aged people. The difference will be best shown by applying the proportion of 1871 to the population of 1881, and contrasting the number actually enumerated at each period with the number so estimated—

	Under 1.	1 to 5.	Under 5.	5 to 20.	20 to 60.	60 and above.
1881—Actual,						
Difference between						
Actual and Estimated,						

The error is serious in the two periods of childhood, but in opposite directions, so that "under 5" is fairly accurate. The next two periods are practically accurate, while the period "60 and above" is seriously wrong by defect.

THE REVISED VITAL STATISTICS OF THE DECADE.

We have now exhausted our consideration of the results of the enumeration of 1871 and 1881, especially with a view to determining how far the forecasts of 1881, as deduced from the facts ascertained in 1871, have stood the test of comparison with the actual condition of affairs in 1881. We have found that the ascertained differ in many respects widely from the anticipated facts. The great central difference, involved within which and surrounding which are many subordinate differences, is this—that in place of adding to our population at the rate of nearly 22 per cent, in the last decade, as we did in the one preceding, we have added only 4 per cent. So expressed, this is like the annual balance of a merchant's books. The balance shows a profit or a loss of so much on the year, but the few figures which give the amount on one side or the other represent the outcome of a multitude of transactions spread over the year. Had the balance been taken month by month, one would have shown a profit, another a loss, or perhaps an increasing profit or an increasing loss. As the growth or decline of a city is in its ultimate nature a vital process, a truer analogy will be found in some essentially vital phenomenon, such as the growth of a child into the adult. This is measured by stature and weight; but when we say the average gain in weight or in height in a year is so much, we express the process of nature in the form of an arithmetical fiction. The process of nature is gradual always in health, subject to the abnormal interferences of disease, more or less nutrition, &c., &c. No acute angle in reality marks the passage from one period to another. So it undoubtedly is with a city. The method adopted by the Registrar-General is to assume that on the 1st January, 1871,

Glasgow suddenly ceased to develop at the rate of 2.165 $(2\frac{1165}{10})$ and began to develop at the rate of $4(\frac{4}{10})$ annually. He will therefore sweep aside all the calculations as to death, birth, and marriage rates, which he has published on the assumption that the rate of growth continued into the last decade at 2.165 per annum, and substitute calculations based on the assumption that the rate suddenly became '4. But more than this, he will, until next Census is taken, calculate all his rates upon the assumption that the slow rate of growth con-Both of these assumptions are alike contrary to the natural probabilities of the case. What I now propose to do is to endeavour to raise those probabilities to the position of certainties, by collecting such facts as are accessible in proof of the gradual nature of the declension of our rate of growth. Some of these facts are simple matters of local and national history. The decade began in the heyday of commercial prosperity. It led us year by year into the depths of unprecedented depression, and left us in sight of a revival of trade. The failure of the City of Glasgow Bank in the autumn of 1878 added local intensity to a condition which previously we had simply shared with the country generally. The winter of 1878-79 was probably the gloomiest which the City had ever seen, and fraught with more anxiety to its rulers. A gigantic organization for the relief of the unemployed was in operation, and renewed on a smaller scale in the winter ensuing. In 1878-79 nearly 14,000 applications for relief were received from persons whose dependants numbered 26,500 souls. Above £26,000 were expended in food and wages for Other facts, which give us evidences of the test-work. gradual declension of the City, are capable of statistical expression from year to year; and the chief of those, such as fall specially within the sphere of my observation, are collected in the following Table:-

Householders under £10 who did not pay Poor Rates.	No. Per cent.	22,341	24,008	800,66	93,219	20,965 28	22,337 30	23,881 33	28,013 38	26,494 36	25,977 35
Births.		19,390	20,913	203,02	20,963	20,818	21,032	21,179	20,686	19,817	19,056
Marriages.)	4,617	5,121	4,911	4,992	*4.979	4,968	4.943	4,400	4,180	4,332
New Houses, Dean of Guild	Court.	3,851	3,717	4,564	4,768	5,006	7.108	2,921	8+9	414	398
	Per cent. Unoccupied.	5.00	<u>61</u>	9.5	3.00	18.1	4.01	S † .9	¥6.2	10-25	?i
<i>ડ</i> . ધ્રો	Total,	103,030	104.978	107.787	111,357	112, 401	114,350	117,089	118,332	119,105	19,421
Houses.	Unoccupied.	2,154	2,230	2,744	4,451	4,918	5,619	7,599	9,396	915,21	13,407
	Occupied.	100,876	102,748	105.043	106,906	107,483	108,731	109,490	108,936	106,889	106,014
		1871,	1872,	1873,	1874,	1875,	1876,	1877.	1878,	1879.	1880,

* Registration area extended and whole Municipality included, 1st Jan., 1875.

The number of occupied houses entered on the Assessor's roll in June of each year increased by diminishing increments to their maximum in 1877. They then fell until in 1880 there were 3,476 less than in 1877, 892 less than in 1874, and only 5,138 more than in 1871. The largest increment was 2,295 in 1874; the largest decrease 2,047 in 1879. There was, as we have already seen, not only a diminution in the number of houses occupied, but also in the number of inmates in each house, both as tested by the inmates per house and per room in the house. The number of unoccupied houses increased, year by year, from 2,154 in 1871 to 13,407 in 1880, from 2 per cent. of the total house-accommodation to 11 per cent. The records of the Dean of Guild Court show a remarkable activity in the building of dwelling-houses, culminating in 1876, when plans for no less than 7,108 were submitted and sanctioned. From that year they fell off by "leaps and bounds" to 398 in 1880! The number of marriages in a community is a true indication of its wellbeing, or the reverse. The figures given above are taken from the returns of the Registrar-General, who only embraced the whole municipality in 1875. Previous to 1st January of that year, those parts of Glasgow north of the Canal were not included. This makes the fact that in 1871 there were 4,617 marriages, and in 1879, within an extended area, only .4,180, more expressive than appears from the figures without this explanation. Still more expressive is the fact that the maximum was recorded in 1872, or three years before the extension of the Registration area. The lesser area then produced 941 more marriages than the greater area in 1879! The column headed Births represents the product of an area which was very slightly increased in 1872 and 1878—so slightly, that the increase is practically of no moment. We find that we end the decade with a birth-product 334 less than we had in its first year. The maximum was attained in 1877, the minimum in 1880. The last columns in the table are supplied by Mr. Campbell, City Assessor, who has spared no trouble in rendering assistance in extending and

verifying my facts. They show the number of householders under £10, within the burgh, who did not pay poor-rates. The minimum was in 1875, the maximum in 1878. Unfortunately, I cannot ascertain the total number of occupancies within the burgh, under £10, previous to 1875, so that I can only reduce the absolute numbers to comparable percentages for the last six years of the decade; but this is sufficient to show that the pinch of hard times fell upon those years. The minimum of this class of householders, who were unable to pay poor-rates, was 28 per cent. in 1875, and the maximum 38 per cent. in 1878.

These facts point with singular unanimity to one conclusion —that the decade may be divided into two periods of five years, the first of which were years of prosperity, the last years of adversity. Increase more or less marks the former period, decrease more or less the latter. The first five years close with an increase of 6607 inhabited houses, the last five years with a decrease of 2717; the first close with 4:37 per cent. empty houses, the last with 11 per cent. In the first period nearly 22,000 new houses were built, in the last little more than half that number. In the first period there were 24,620 marriages, in the second period 22,823 in a larger area. In the first period there were 102,286 births, in the last 101,770. In the first there were 113,526 persons occupying houses under £10 rental who were unable to pay poor-rates, in the second 126,702. In the first period, as a matter of history, trade was certainly declining, but in the second we had the culminating crash of the Bank failure and the clamant thousands of unemployed.

I propose, therefore, to estimate the population of the first period on the basis of facts ascertained at the Census of 1871, and of the second period on the basis of facts ascertained at the Census of 1881. Whatever doubts and uncertainties may attend the intervening years, we rest upon certainty at the beginning and at the end. The number of persons found in each occupied house in 1871 was 4.793, in 1881, 4.738. It seems fair, therefore, to presume that, during the five prosperous years, the

multiplier 4.793 may be applied to the occupied houses of each year, and during the five adverse years the multiplier 4.738—adding to the result in the former 6867, in the latter 7776, the number of persons actually enumerated in institutions and in the vessels in the harbour in 1871 and in 1881. The following, then, are the respective populations, deaths, and death-rates derived from those populations in each year of the decade. In order to show how considerable must be the alteration in numbers of such magnitude as those which represent the population of Glasgow to seriously influence the death-rates per 1000 calculated therefrom, I give the populations as estimated and used from year to year in the Reports of the Department, and the death-rates founded thereon:—

	Revised Estimates of Population.	Deaths.	Death- Rates.	Former Estimates of Population.	Death- Rates.
1871 1872 1873 1874 1875 1876 1877 1878 1879 1880	490,442 499,338 510,338 519,267 522,033 522,943 526,540 523,914 514,216 510,070	16,155 14,357 14,876 16,323 15,287 13,688 13,758 14,055 12,450 13,303	32·90 28·75 29·14 31·43 29·28 26·17 26·12 26·82 24·21 26·08	490,442 502,990 514,295 525,448 534,564 538,765 546,921 545,737 539,675 538,988	32·90 28·54 28·89 31·04 28·56 25·37 25·15 25·75 23·03 24·68
Average	513,910	14,425	28:07	527,782	27:33

The mean population, therefore, of the decade was 513,910, the mean number of deaths per annum 14,425, and the mean death-rate 28 (28.07) per 1000 living. The mean of the populations as estimated by me from year to year and hitherto used is 13,872 higher, and the mean death-rate derived therefrom 27 (27.33), or exactly 74 less. The mean death-rate of the decade 1861-70, as finally adjusted by the Registrar-General, was 30 (30.29). There has therefore been a diminution of fully 2 deaths per 1000 living; that is to say,

10,278 persons are alive who at the death-rate of the previous 10 years would have been dead.

If we compare the first and last periods of five years by taking their mean populations and deaths, we get the following results:—

1871-75	508,284	15,399	30:29 (30
1876-80	519,536	13.451	25.89 (26

The death-rate of the first period was 30, of the second 26, showing a diminution of 4, or exactly 4.4 per 1000 living. When we recall the circumstances of privation and general destitution which marked the second period of five years, this improvement is surprising and gratifying.

It is important to ascertain in what direction this lowering of our death-rate has come—in which classes of disease has a saving of life been effected. The following Tables show the number of deaths from certain causes in each year of the decade, and the death-rates, calculated from the rectified populations given above:—

NUMBER OF DEATHS FROM CERTAIN CAUSES IN DECADE 1871-80.

Consumption and Acute Diseases of Lungs.	6,201	4,957	4,795	5,220	5,462	4,925	5,285	4,999	4,700	4,387	26,635	24,296	50,931
Diarrhœal Diseases.	419	378	534	468	520	463	263	483	822	420	2,319	1,857	4,176
Croup and Diphtheria.	343	315	348	580	070	560	345	561	563	282	1,558	1,411	2,969
Hooping- eough.	540	1,056	313	929	605	611	¥67	985	485	709	3,277	3,211	6,488
Measles.	888	109	614	27.4	िद	297	359	280	156	331	2,227	1,423	3,650
Scarlet Fever.	345	372 •	605	1,718	729	315	132	190	SFc	455	3,767	1,338	5,105
Small-pox.	205	137	223	221	¢ា			C1	:	c1	788	લા	810
Fevers.	787	430	340	SFS	389	311	232	261	198	332	2,282	1,364	3,646
		*	:	:	:	•	:	*	•	•	:	:	•
Years,		:	:	•	:	:	•	:	:	:	5 Years, 1871-75, Total,	5 Years, 1876-80, Total,	10 Years, 1871-80, Total,
	1871,	1872,	1873,	1874,	1875,	1876,	1877,	1878,	1879,	1880,	5 Years, 18	5 Years, 18	0 Years, 18

Consumption and Acute Diseases of Lungs.	126.43	99.27	93.95	100.52	104.62	94.17	100.37	95 41	91.40	00.98	 104.80	93.52	99·10	83.61
Diarrhœal Diseases.	8.54	7.57	10.46	9.01	96-6	8.85	4.99	9.21	4.43	8.23	9.12	7.14	8.11	8.13
Croup and Diphtheria.	66.9	6:30	6.81	5.30	5.21	4.97	6.55	4.98	5.11	5.55	6.11	5.45	5.75	6.62
Hooping-	11.01	21.14	6.13	13.01	13.25	11.68	8.05	08.81	9.37	13.90	12.88	12.35	12.60	15.07
Measles.	18.12	2.18	12.03	7. č. č	6.53	2.67	18.9	5.34	3.03	87.9	8.7.5	97.5	7.10	7.95
Scarlet Fever.	7.03	7.44	11:79	33·10	13.96	6.05	5.50	3 62	7.85	18.8	14.81	5.13	6.05	13.17
Small-pox.	4.17	2.74	4.36	4.25	0.03	0.13	0.50	60.03		0.03	3.08	0.02	1.57	
Fevers.	16.04	8.61	99.9	09.9	7.3]	5.04	4.97	4.98	3.85	6.50	 8.97	5.55	60. 2	₹5.05
	:			:	:		:	:	:	:	:	:	:	:
	:	:	:	i	:	:	÷	÷	i	•	ı,	m,	an,	an,
Years.	:	:	:	:	:	:	:	:	:	:	5, mean	30, mea	.S0, me	70, me
	:	:	:	:	:	:	:	:	÷	:	1871-8	1876-8	, 1871.	, 1861
	1871,	1872,	1873,	1874,	1875,	1876,	1877,	1878,	1879,	1880,	5 Years, 1871-5, mean,	5 Years, 1876-80, mean,	10 Years, 1871-80, mean,	10 Years, 1861-70, mean,

The death-rates are calculated per 10,000 of the population. From the lower four lines of this last Table it will be seen that there has been a decided, and, in the case of Fevers and Scarlet Fever, a remarkable fall in the mortality from all forms of Zymotic Disease in the last as compared with the preceding ten years. Only 7 in place of 20 persons out of every 10,000 fell victims to Fever, and only 10 in place of 13 to Scarlet Fever. An encouraging feature of this improvement is that it is progressive. If we divide the last decade into two periods of five years, and compare therewith 1861-70, in every instance we find that the last period of five years (1876-80) shows the lowest mortality. The Fevers carried off per 10,000 living, 20 in 1861-70; 9 in 1871-5; 5 in 1876-80; and, in each case following the same succession of periods, Small-pox, 2—3—7; Scarlet Fever, 13—15—5; Measles, $8-8\frac{3}{4}-5\frac{1}{3}$; Hooping-cough, 15—13—12; Diphtheria, $6\frac{1}{3}$ — 6—5½; Diarrheal Diseases, 8—9—7. But for the great milk epidemic of Enteric Fever in 1880, originated from the wretched sanitary arrangements of a farm twenty miles away, which has left its mark by a rise of $2\frac{1}{2}$ per 10,000 on the Fever death-rate of 1880, it might be said that the decade began with a Fever death-rate of 16 per 10,000, and year by year, with scarcely a break, recorded a fall, until it closed with one of 4.

The mortality from Pulmonary Diseases is not diminishing. It amounts to twice the mortality from all Zymotic Diseases together, and in certain years may produce a death-rate which would be reckoned high in a country district as the aggregate death-rate from all causes. It is to be feared that while we are attacking Zymotic Diseases on their own ground, and with success, we have not yet struck home against the causes of our Pulmonary death-rate, which are an atmosphere surcharged with smoke, over-density of building, and overcrowding of the inhabitants, with a low level of domestic comfort.

Institutions.

A word is necessary as to the meaning of this term

"Institutions" in Census nomenclature; for, unfortunately, it has a special artificial meaning, and still more unfortunately a variable special artificial meaning, thus :-

"All institutions, whose inmates did not amount to 50 persons, were treated as ordinary houses, and the particulars regarding their inmates taken up by the ordinary enumerator." -Census of Scotland, 1861, Population Tables and Report, p. ix.

"The larger public institutions were treated as separate enumeration districts, but those with fewer than 135 persons were treated as ordinary houses, whose numbers were taken up by the enumerator of the district in which they were situated."--Census of Scotland, 1871, Report, vol. i., p. x.

In 1881 the limit was raised to 200 persons, and all institutions having a population below that number were treated as ordinary houses.

As a matter of fact special schedules are issued for "Institutions," on an estimate of the probable inmates; and as this estimate proves too high in some cases, too low in others, we find "Institutions" returned whose population is below the standard chosen, and some omitted and returned as houses whose population is above the standard! It is apparent, therefore, that, as in many other things (beginning with the determination of the areas of the Registration districts), objects quite other than social or sanitary were kept in view, in fixing what should and what should not be called an "Institution." Although, therefore, the following is by no means a complete list of institutions, it is interesting, and it comprises all that the Census designates such:—

Model Lodging-house	(Drvgate)	lumates.	lrish-born.	lumates.	lrish-born.
0 0	(Greendyke),		77		
Do.	(Clyde Street),		51		
Do.	(M'Alpine Street),	361	101		
Do.	(N. Woodside Road	1),315	80		
Do.	(Hydepark Street)	, 305	97		
Do.	(Portugal Street),	317	92		
Total in Model L	odging Houses,			2,159	562

	nmates.	Trish-born.	Inmates.	Irish-born.
Royal Infirmary,	638	132		
Western do.,	348	51		
City of Glasgow Fever Hospital, Belvi-				
dere,	268	35		
Total in Hospitals,			1.254	218
Industrial School, Rottenrow,	214	7	-,=01	210
Reformatory and House of Refuge for		•		
Boys, Duke Street,	177	8		
Catholic Orphanage for Boys, Aber-	1,,	0		
cromby Street,	947			
Catholic Orphanage for Girls, Aber-	441			
	000	0		
eromby Street,	230	9		
Mall' De e e ara		_		
Total in Reformatories and Indus-				
trial Schools,			868	24
Her Majesty's Prison, Duke Street,			684	153
Asylum of Little Sisters of the Poor,				
Garngad Hill,			236	116
City Poorhouse and Asylum,			1,819	480
			7,020	1,553

Two of our Poorhouses are situated outside the Municipal boundary—the Barony in the "Landward" part of Dennistoun Registration District, the Govan Combination in Govan Church. The following, therefore, are the complete returns of indoor paupers, exclusive of the insane poor of the Barony Parish at Lenzie. It must, of course, be remembered that in the case of Govan and Barony these are derived from an area extending considerably beyond Glasgow proper.

		Inmates.	Irish-born.
City Poorhouse,		1,819	480
Barony do.,		1,194	324
Govan Combination Poorhouse,	• • •	874	201
Total,		3,887	1,005
Total,		0,007	1,000

Proportion of Irish-born in Institutions.—In the Poorhouses 26 per cent. of the inmates are Irish-born; in the Model Lodging-houses, 26 per cent.; in Her Majesty's Prison, 22 per cent.; in Public Hospitals, 16½ per cent.; in Reformatories and Industrial Schools, nearly 3 per cent., the inmates being children and home-born. In the Asylum of

the Little Sisters of the Poor—a charity for the reception of aged and infirm poor—49 per cent. are Irish-born.

"LANDWARD" PARTS OF THE REGISTRATION AREA OF GLASGOW.

Those portions of the suburbs which are joined to Glasgow for registration purposes, and whose statistics are distinguished as "Landward," embrace, as already stated, the Burghs of Kinning Park, Govanhill, Pollokshields East and West, the districts of Strathbungo and Polmadie, and a large area to the East and North of the City. A few data, parallel with those given for Glasgow, may be added regarding these "Landward" districts as a whole.

Their population at three successive enumerations was—

	Population.	Increase.	Percentage of Increase.
1861,	5,607	•••	• • •
1871,	16,474	10,867	193.8
1881,	39,121	22,647	137.4

Between 1861 and 1871 they all but trebled their population, while between 1871 and 1881 they gained 56 per cent. less.

Institutions.—There are two in the Landward Districts, viz.:—Barnhill Poorhouse, 1,194 inmates; and Mossbank Reformatory for Boys, 371.

Ages.—Leaving out the Institutions, the following are the proportions living at various periods of life. For the sake of comparison, the proportion in Glasgow, also without Institutions, is added:—

	Under 1.	1 to 5.	Under 5.	5 to 20.	20 to 60.	60 and Upwards.	Un- known.
"Landward," Glasgow,		12·65 10·70	16·17 13·84	33.36	46·79 49·71	3·66 5·13	·010 ·005
Difference,	+ '38	+ 1:95	+ 2:33	+ 2.06	-2.92	- 1 · 47	+ .005

There are in the "Landward" districts, therefore, more children and fewer old people than in Glasgow. If we take shorter periods for comparison we find that there are 4.74 per cent. more persons under 15 years of age in the Landward districts than in Glasgow; 1.43 fewer between 15 and 30; 0.68 more between 30 and 40; and 3.93 fewer above 40. The Landward districts show all the characteristics of an active, vigorous, reproductive population.

Irish-born.—The proportion to the total population is 8.6 per cent. In Glasgow it is 13 per cent.

Houses.—The proportion unoccupied is 15 per cent. against 11 per cent. in Glasgow.

The average number of persons per house is 5.294 with and 5.082 without Institutions.

The average number of rooms per house is 3:187, and the average number of persons per room 1:66.

Burgh of Govanhill.—Population, 9,634. Occupied houses, 1,981; unoccupied, 356; rooms, 5,632. Percentage of unoccupied houses, 15\frac{1}{4}. Number of persons per house, 4.863; number of rooms per house, 2.843; number of persons per room, 1.71.

Burgh of Kinning Park.—Population, 11,556. Increase since 1871, 4,339, or 60·122 per cent. Occupied houses, 2,396; unoccupied, 443; rooms, 4,720. Percentage of unoccupied houses, $15\frac{3}{4}$. Number of persons per house, 4·823; number of rooms per house, 1·969; number of persons per room, 2·448.

Burgh of Pollokshields, East.—Population, 4,360. Occupied houses, 786; unoccupied, 104; rooms, 4,069. Percentage of unoccupied houses, $11\frac{1}{2}$. Number of persons per house, 5.547; number of rooms per house, 5.175; number of persons per room, 1.071.

Burgh of Pollokshields.—Population, 2,104. Occupied houses, 300; unoccupied, 10; rooms, 3,358. Percentage of unoccupied houses, 34. Number of persons per house, 7.013;

number of rooms per house, 11·193; number of persons per room, 0·626.

Remaining Landward District.—Population, 6,954. Occupied houses, 1,926; unoccupied, 356; rooms, 5,775. Percentage of unoccupied houses, 15½. Number of persons per house, 3.610; number of rooms per house, 2.998; number of persons per room, 1.204.

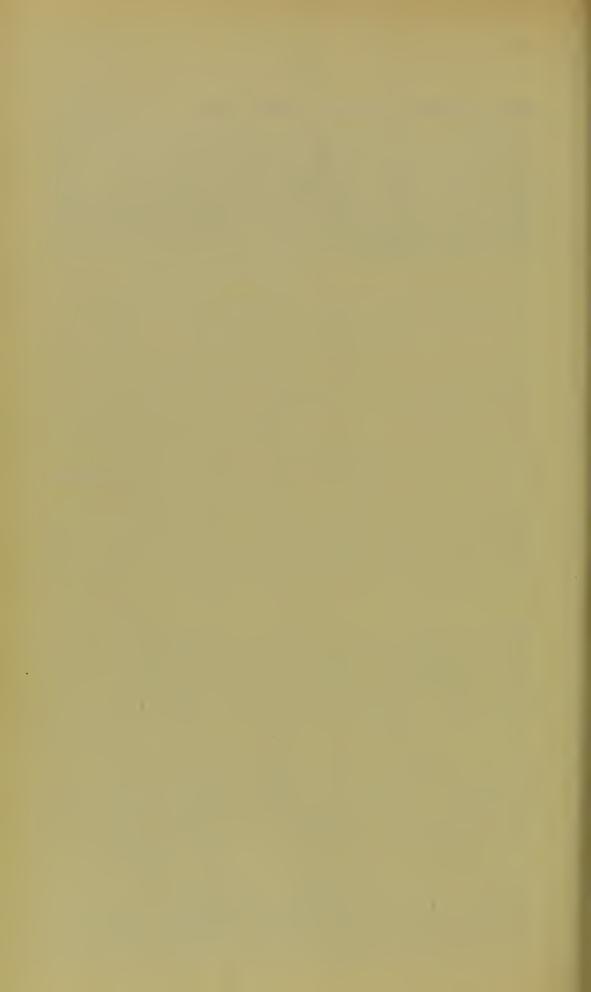


TABLE I.—CENSUS, 1881—GLASGOW:	HOLLO C	of little						DIVIO	10110, 1				TIVILA.	TES O	i IND.	.11011	ONO 1	THE II	AltDO	710, A	LSO N	O MIDE	II OF	TRISH-	DURN,	OF IN	HABIT	TED A	ND E	MILLI	1008	es, an	OF.	WINDO	OWED	ROOMS	š.	
	UNDER 1	YEAR.	1	4.		5-	9.		10-	14.		15	19		20	29.		30	39		40	49),	50			60 AND	UPWAR	eds.	NOT KNO	WN,	GRAND 1	COTAL.	ELAND.	F	Houses.	7ED	
STATISTICAL DIVISIONS AND PUBLIC INSTITUTIONS.	Malen. Females:	Total.	Males.	Females.	Total.	Malcs.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males,	Females.	Total.	Males.	Females.	Total,	Males.	Females,	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Total.	Junes. Females.	Total.	BORN IN IR	Inhabited.	Empty.	Window	
BLYTHSWOOD, 1. EXCHANGE, Without Institutious, City Poorhouse, City Poorhouse, City Poorhouse, Closes, City Poorhouse, Closes, Closes, Industrial School, Rotteurow, Indu	294 259 240 244 9 19 88 86 122 122 250 258 884 104 99 754 5 5 435 456 59 62 51 51 378 314 41 37 43 53 45 53 99 116 765 760 264 249 350 375 1 2 459 424 509 531	484 484 484 244 244 244 203 203 203 203 205 205 205 205 205 205 205 205 205 205	1,569 1 1,869		1 1,606 2,488 6 3,053 1 3,748	981 44 318 550 1 834 3,197 26 339 2 2,744 40 1,648 252 208 1,267 140 383 2,646 1,651 1,926 	948 50 303 489 44 831 3,150 15 343 2,717 24 38 1,642 2,48 182 1,265 1 154 207 363 2,554 1 1,310 9 1,604 1,604	2,349 1,929 94 621 1,039 45 1,665 6,347 41 682 2 5,461 48 40 38 3,290 500 390 2,532 2 294 11,688 2,616 25 3,255 3,978	68 36 293 2 2 2,256 16 183 1,467 233 200 1,055 6 159 1 196 2,068 1,060 1 1 1,407 3 1 1,812 1	954 33 37 472 155 695 2,764 27 303 1 4 2,370 8 164 1,482 249 189 11,061 135 127 2 2 11,061 135 11,061 135 11,061 11,	1,593	20 797 1,302 16 15 1,496 26 15 1,992 20	28 1,415 1,980	3,119 2,048 51 451 1,018 7 1,329 5,473 98 72 761 18 124 4,614 22 19 14 2,937 ,590 21 2,236 26 381 5 784 4,330 21 1,570 2,695 44 1,570 2,695 44 1,570 2,695 44 1,570 2,695 44 1,570 2,695 44 1,570 2,695 44 1,570 2,695 45 2,911 1,570 2,695 46 15 2,911 26 15 3,972 20	2,968 1,877 80 432 940 1,501 4,691 3 76 644 57 166 3,855 20 1 2,395 479 324 67 1,901 58 15 770 4,297 1,447 2,684 39 70 3,140 94 70 4,068	3,214 1,795 106 351 144 4 1,395 5,141 93 579 112 4,486 57 1 4 2,902 518 357 2,007 385 315 1,363 3,169 57 2,480 1 3,642 1 3,642 1	6,182 3,672 186 783 1,780 4 2,896 9,832 4 4 169 1,223 5,27 278 8,341 77 77 681 3,908 58 58 573 15 1,452 9,083 72 2,810 5,853 9,66 70 5,853 9,66 70 5,853 9,66 70 5,710 101 101 101 101 101 101 101 101 101	1,709 1,254 92 338 670 1,047 3,391 53 474 75 75 2,529 7 1,658 280 240 72 1,311 8 541 3,102 77 1,020 1,705 29 40 1,965 82 40 2,481 80	1,921 1,313 140 319 637 1 972 3,569 7 2 64 465 69 2,907 4 1,901 319 249 1,478 1 250 255 1 520 3,327 1 995 2,143 28 1 1,944 1 1 2,646 1	3,630 2,567 232 657 1,307 1 2,019 6,960 7 2 117 939 75 144 5,436 2.6 3,559 49 72 2,789 41 546 7 486 111 9,061 6,429 1,061 6,429 1,061 6,429 3,848 5,436 111 1,061 6,429 1,061 6,420 6 6 6 6 7 8 8 8 8 8 8 8 8 8 8	1,166 917 91 248 517 91 248 2,427 2 2 2 2 36 408 71 45 1,959 1 1,301 244 223 71 1,004 51 209 6 171 58 514 1,813 72 814 1,100 26 25 1,433 50 25 1,757 50	1,684 1,101 131 253 568 1 679 2,749 7 2 33 426 1 40 2,344 166 4 1,702 269 242 1 1,266 1 191 2983 1,449 16 1,563 1 2,888	2,850 2,018 222 501 1,139 1 1,323 5,176 9 4 89 834 4,303 177 4 3,003 513 465 72 2,270 52 2,270 6 6 400 6 400 6 400 59 1,046 4,04	839 607 116 136 361 415 1,503 1 26 239 42 10 1,130 1 839 180 135 33 683 50 149 1 1 85 39 22 328 1,105 39 451 657 23 7 832 31 8 1,132 15	750 144 125 409 1,777 25 273 5 1,452 5 1 1,220 207 137 136 136 344 1,511 547 979 8 1,003 1,409 1,409	2,043 1,387 260 26i 770 1 874 3,280 8 51 512 512 2,582 5 2 1 2,059 387 272 272 33 1,609 50 285 1 238 39 20 1 20 1 20 1 30 1 20 1 30 1 30 1 30 1	422 245 76 321	1,126 660 342 96 405 366 1,540 130 1 7 210 9 1,246 3 1 1,093 180 136 928 121 113 249 1,341 436 862 3 819 1,269 1	1,773 1,082 1,082 172 726 638 2,567 209 1 25 369 1,18 2,034 6 1,746 325 236 25 1,453 32 209 1 160 29 1 449 2,045 22 694 1,465 11 3 1,310 14 4 2,038	2 2 2 2 2 2	2 9,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	376 18.7 376 18.7 18.8 18.8 399 4.7 399 4.7 391 14.2 31 15.5 45 3.1 323 6.7 323 6.7 323 4.0 323 6.7 324 4.0 325 2.2 321 2.2 321 2.2 322 2.2 323 4.9 44 2.2 2734 3.6 3818 3.4 3818 3.4 3818 3.5 3818 3.6 3818 3.6 3818 3.6 3818 3.7 3845 37.6	7,08 1,22 4,27 1,00 1,	253 3,818 3,	1011 322 146 14 14 126 18 18 121 16 156 1,50 11 16 156 1,50 11 16 17 17 18 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	$ \begin{array}{c} 3 \\ 3 \\ 3 \\ 1 \\ 1,702 \\ 3 \\ 1 \\ 3,944 \\ 4 \\ 31 \\ 34 \\ 5,997 \\ 25,943 \\ 4 \\ 35 \\ 4 \\ 6 \\ 1,757 \\ 16,842 \\ 2 \\ 1,955 \\ 12 \\ 2,921 \\ 1,955 \\ 14 \\ 35 \\ 8,798 \\ 17 \\ 2,314 \\ \dots \\ 33 \\ 1,457 \\ 17 \\ 2,314 \\ \dots \\ 33 \\ 2,648 \\ 25,563 \\ 25 \\ 25,757 \\ 20,112 \\ 202 \\ \dots \\ 202 \\ \dots \end{array} $	1. 2. 3. 4. 5. 6. 6. 7. 8. 9. 11. 12. 13. 14. 15. 16. 17. 18. 18. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18
M. HUTCHESON, Without Institutious and Harbour, Harbour, HUTCHESON SQUARE, GORBALS, Without Institutions, Model Lodging-house, Portugal St.,	150 143 990 1,011 185 183	2,001	483 3,351 647	3,270 677	979 6,621 1,324	3,124 708		976 6,380 1,384	420 2 2,613 559		5,307 1,219	453 8 2,684 685 17	2,615 640	902 8 5,299 1,325 17	968 32 5,459 1,320 86		1,753 32 11,038 2,536 86	625 18 3,740 870 80	586 1 3,911 907	1,211 19 7,651 1,777 80	468 12 2,296 677 67	2,613 746	986 12 4,909 1,423 67	267 4 1,355 351 43	333 1,705 423	3,060 774 43	$ \begin{array}{c} 185 \\ 3 \\ 919 \\ 262 \\ 24 \end{array} $	298 1,516 446	483 3 2,435 708 24	1 2 1	3 26, 1 6,	79	$ \begin{array}{c ccc} $	80 1 704 5,88	10	05 1,55	23,790	20.
SPRINGBURN AND MARYHILL,	408 419 - - 7,928 7,890	·	1,442 27,067	1,438 26,863 5			1,440						1,011			49,813		1,529 33,006	1,429 34,963		1,112	1,054		14,388	18,121	1,218 32,509	348 10,009	402 15,858	750 	16 12	11,	1,475 10,7 3,287 260,4		_			8,613 	_
Institutions,	19 35		64	65	129	154	182	336	391	412	803	429	168	597	927	440	1,367	793	337	1,130	663	255	918	454	197	651	539	496	1,035			1,433 2,5				\	1,920	
Harbour,									7		7	68		68	302	2	304	193	5	198	123		123	37		37	17	2	19			747	9 7	756 12	24			
GRAND TOTAL WITHIN MUNICIPALITY, 7	7.947 7.925	15,872	27, 131	26,928 5	54,059	28,501 2	8,483 5	66,984	24.827 2	25,285 5	0.112	25.880	26.501	52.381	50.467	50.255	100.722	33.992	35 305	69 297	24 262	27 685	51 947	14.879	18.318	33.197	10.565	16.356	26 921	16 19	28 218	467 263	53 511.5	520 65 18	85 106.3	17 12 74	2 218 80	

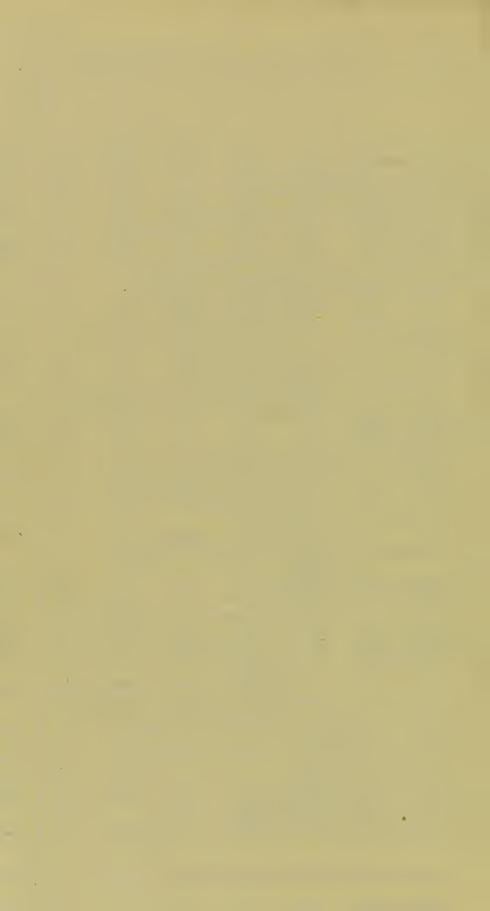


TABLE II.—CENSUS, 1881—GLASGOW: PROPORTION PER CENT. OF THE TOTAL POPULATION (EXCLUSIVE OF INMATES OF INSTITUTIONS), AT VARIOUS PERIODS OF LIFE, IN EACH STATISTICAL DIVISION.

	STATISTICAL DIVISIONS.		Under 1 Year.	1-4.	5- 9.	1014.	15—19.	2029.	3039.	40—49.	50—59.	60 and upwards.	Nor Known.
-	BLYTHSWOOD,		2.064	7.415	8.768	s·585	11.642	23.076	13.550	10.638	7.626	6.618	0.014
1.	EXCHANGE,		2.574	9.181	10:261	10.017	10.892	19.533	13.655	10.735	7:378	5.755	0.010
2	PORT-DUNDAS,		3.698	11.989	13:201	11.054	9.587	16.645	13.966	10.650	5.548	3.656	
3.	HIGH STREET AND CLOSES, W.,		2.478	8.685	10.544	9.792	10:321	18.082	13:277	11.570	7.822	7.375	0.020
4.	ST. ROLLOX,		3.564	11.584	11.682	9.465	9.325	20:319	14.166	9.282	6.132	4.476	
5.	BELLGROVE AND DENNISTOUN,		3.262	11.212	11.943	10.629	10.298	18.500	13.096	9.739	6.171	4.830	0.011
6.	HIGH STREET AND CLOSES, E.,		3.002	9.482	10.088	8.816	11 257	18.091	13.890	12:337	7.573	5.458	
7.	GREENHEAD AND LONDON ROAD,		3.209	11.584	12:397	10.201	10.474	18.935	12:340	9.768	5.861	4.617	0.009
s.	BARROWFIELD,		3.092	10.677	11.420	10.237	10.195	18:387	12:354	10.424	7.147	6.061	
9.	MONTEITH ROW,		2.462	8.140	10.175	9.808	12:008	20.288	12:189	10.439	7.875	6.613	
10.	ST. ANDREW'S SQUARE,		2.642	8.730	10.103	10.077	12:927	17:642	12.668	12:046	7.046	6.116	
11.	CALTON PROPER,		3.170	10.171	11.601	9.695	10.245	17.906	12.778	10.400	7:372	6.657	
12.	ST. ENOCH SQUARE,		2.152	7:284	8.112	8.112	10.513	24.089	15.066	11.037	7.864	5.767	
13.	BROWNFIELD,		2.859	10.417	11.642	9.425	10:300	17.887	14.181	11.672	6.944	4.668	
14.	BRIDGEGATE AND WYNDS,		2.757	8.630	9.566	8.960	10.023	18.620	13.606	13.413	8.617	5.757	0.011
15.	WOODSIDE,		3.406	11.745	11.616	9.451	9.672	20.290	14:361	9.038	5.843	4.568	0.004
16.	COWCADDENS,		3.367	10.542	11:081	10.457	10:306	18:446	13.227	11.455	6.551	4.555	0.006
17.	KELVINHAUGH AND SANDYFORD,		2.775	9.525	10.016	8:584	10.318	22.409	14.733	9.759	6.263	5.609	0.003
18.	ANDERSTON PROPER,		3.091	10.689	11:396	9.761	10.192	19.677	13.686	10.489	6.424	4.586	0.003
19.	KINGSTON,)	2.761	9.952	10.562	9.721	10:546	20.472	13.613	10.209	6.747	5.411	
20.	LAURIESTON,		3.237	10.816	10.783	9.590	9.965	19:368	13.380	10.893	6.629	5:336	
21.	HUTCHESON SQUARE,		3.657	12.102	11.662	9.701	9.686	20.177	13.985	8.973	5.593	4.451	0.002
22.	GORBALS,		2.866	10.312	10.779	9.494	10.320	19.752	13.841	11.083	6.028	5:514	0.007
-	SPRINGBURN AND MARYHILL,		3.722	12.963	13.174	10.145	9.537	18.535	13:314	9.749	5.482	3.375	
						-							
	Per Cent. of Total, without Institutions,		3.140	10.705	11.245	9.787	10.266	19.662	13.492	10.102	6.453	5.134	0.002
j	Per Cent. of Total, including Institutions,		3.107	10.583	11.156	9.809	10.242	19.660	13.528	10.146	6.492	5.267	0.002



		Acres	age.	Inhabite	ed Houses.			POPUL	ATION	OF DISTI	RICTS.			DIFFERI TO POPULA	ral			Perce	NTAGE AT	CERTAIN Vithout In	Ages of T stitutions,	OTAL POP	PULATION OF ling Harbou	F EACH D	ISTRICT			Acre (inc)	Persons uding	House (ev	cluding		For 1881 on	ly.	
	STATISTICAL DIVISIONS.					Without 1	nstitutions.	Institu	itious.	Harbo	our.	TOTAL POI	PULATION.			Und	er 1.	1	-4.	Und	er 5.	5—	-20.	20-	60.	60-		Institut and Harl		Institutio Harbo	ons aud	Percent-	Rooms	Persons	
	17	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	Increase.	Decrease.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.		Inhabited House.	per Room.	
	Blythswood,	266	266	6,693	5,295	33,442	26,789				5	33,442	26,789		6,653	2.42	2'064	8:00	7:413	10.43	9.477	29.34	28.996	54.00	54.890	6.19	6.618	126	101	4.996	5.059	5.10	4.065	1.250	
1.	Exchange,	215	215	4,296	3,811	24,369	18,798	1,985	1,819		50	26,354	20,617		5,737	3.03	2.574	9.48	9:182	12.52	11.756	30.73	31.173	51.37	51 313	5.35	5.755	123	96	5.672	4.932	8.40	2.955	1.830	1,
2.	Port-Dundas,	73	73	981	946	5,305	4,704	1			-	5,305	4,704		601	3.72	3.698	11.42	11.989	15.21	15.688	33.23	33.843	48.01	46.811	3.02	3.651	73	64	5.407	4.972	18.57	1.799	2.763	2.
3.	High Street and Closes West,	42	42	3,142	2,026	12,259	9,844	362	214			12,621	10,058		2,563	3.21	2.478	10.01	8.685	13.24	11.164	29.56	30.688	51.03	50.772	6.16	7.375	301	239	3.901	4.858	16.20	1.946	2.550	3.
4.	St. Rollox,	45	45	2,929	3,021	12,988	14,252				-	12,988	14,252	1,264		4.13	3.564	11.50	11.584	15.64	15.148	29.55	30.473	50.93	49.902	3.88	4.476	289	316	4.434	4.718	12:32	1.985	2.376	4.
ō.	Bellgrove and Dennistoun	1,108	1,152	8,794	11,256	39,653	53,144	1,285	1,051			40,938	54,195	13,257		3.23	3.262	11.48	11.515	14.97	14.778	33.55	32.871	46.61	47.519	4.85	4.830	37	47	4.509	4.721	11.71	2.304	2.089	5.
6.	High Street and Closes East	50	50	3,464	1,406	16,676	6,760	856	985		,	17,532	7,745		9,787	3.32	3.002	10.02	9.482	13:36	12:485	31.12	30.162	50.29	51.893	5'23	5 • 458	351	155	4.814	4.807	16.90	1.830	3.010	6.
7.	Greenhead and London Road,	857	857	7,169	9,558	29,885	44,050	635	745)		30,520	44,795	14,275		3.93	3.509	11.25	11:584	15.19	15.094	33.42	33.373	47.08	4.6914	4.27	4.617	36	52	4.168	4.608	11.99	1.762	2.659	7.
s.	Barrowfield,	123	123	6,511	6,603	30,108	28,807					30,108	28,807		1,301	3.48	3.092	10.41	10.677	13.90	13.770	33.12	31.853	47.44	48:314	5.23	6.061	245	233	4.608	4.362	15.11	1.679	2.597	8.
9.	Monteith Row,	115	115	995	949	4,513	4,914					4,513	4,914	401		3.12	2.462	8.63	8.140	11.70	10.602	29.31	31.990	52.60	50.793	6:38	6.613	39	42	4.535	5.)	9.32	3.078	1.682	9.
10.	St. Andrew's Square,	22	22	1,432	770	7,862	3,860	164	291			8,026	4,151		3,875	3.10	2.642	9.56	8.730	12.68	11:373	30.24	33.108	52.12	49.404	4.95	6.113	365	189	5.490	5.012	20.71	2.539	2.123	10.
11.	Calton Proper,	66	66	5,769	4,902	25,637	21,825	,	269		ia.	25,637	22,094		3,543	3.48	3.170	10.61	10.171	14.10	13.342	31.31	31.541	48.36	48.458	6.12	6.657	388	335	4.443	4.452	15.57	1.792	2.511	11.
12.	St. Enoch Square,	84	84	1,391	662	7,726	3,624	81			36	7,807	3,660		4,147	2.73	2:131	8.91	7.213	11.83	9.344	30.62	26.639	52.33	58.278	5.12	5.737	93	44	5.554	5.474	12:91	3.495	1.581	12.
13.	Brownfield,	11	11	726	,685	3,399	3,427	303	361	}	38	3,702	3,826	124		3.64	2.828	9.63	10:303	13.50	13.131	29.51	31.197	52.16	51.024	4.83	4.646	337	348	4.681	5.003	17:21	2.127	2.625	13.
14.	Bridgegate and Wynds,	35	35	2,550	1,427	14,294	7,798		1			14,294	7,798		6,496	2.94	2.757	9.29	8.630	12.24	11:387	30.35	28.584	52.32	54.270	5.10	5.755	408	223	5.065	5.464	31.63	1.855	2.944	14.
15.	Woodside,	336	336	6,158	9,438	27,116	41,765		315			27,116	45,080	17,964		3.49	3.406	10.72	11.745	14.23	15.152	31.43	30.740	49.80	49.538	4.52	4.268	81	134	4.403	4.743	7 .97	2.603	1.763	15.
16.	Cowcaddens,	61	61	4,143	3,384	19,270	15,233			1	-	19,270	15,233		4,037	3.82	3.367	11.63	10.542	15.20	13.910	31.45	31.845	49.15	49.688	3.90	4.556	316	249	4.651	4.501	21.40	1.701	2.645	16.
17.	Kelvinhaugh and Sandyford,	565	626	3,867	5,179	20,983	26,118		348	100	162	21,083	26,628	5,545		2.78	2.758	9•28	9.467	12.11	12.226	29.93	28.801	52.93	53:386	5.00	5.2 82	37	43	5.426	5.043	6.02	3.883	1.323	17.
18.	Anderston Proper,	127	127	6,850	6,052	31,464	28,561		305	166	165	31,630	29,031		2,599	3.83	. 3.073	10.87	10.628	14.73	. 13.701	29.96	31.226	50.41	50,496	4.56	4.574	249	229	4.593	4.719	20.02	1.986	2.414	18.
19.	Kingston,	370	389	7,677	7,866	36,067	37,660	630		200	275	36,897	37,935	1,038		3.47	2.741	10.07	9.880	13.63	12.621	30.95	30.662	50.64	51.324	4.73	5.390	100	97	4.698	4.787	8*46	2.671	1.805	19.
20.	Laurieston,	49	49	2,423	1,906	12,205	9,051			100	80	12,305	9,131		3,174	3.12	3.208	10.22	10721	13.52	13 930	31.74	30.182	49.89	50.564	4.85	5 • 322	251	186	5.037	4.748	14.83	1.447	2.429	20.
21.	Hntcheson Square,	394	453	8,484	12,005	38,811	54,704		:			38,811	54,704	15,893		3.97	3.657	11.22	12:102	15.20	15.761	31.17	31.048	49.40	48.736	4.20	4.451	99	121	4.574	4.556	10.74	1.981	2.299	21.
22.	Gorbals,	48	48	3,844	2,695	16,811	12,839		317		,	16,811	13,156		3,655	3.26	2.866	10.53	10.312	13.80	13.178	30.98	30.394	50.08	50.712	5.12	5.214	350	274	4.373	4.764	21.85	2.027	2.407	22.
	Springburn and Maryhill,	729	866	2,461	4,475	12,732	22,217			}	60-	12,732	22,217	9,485		4.14	3.722	12.59	12.963	16.58	16.685	33.75	32.857	46.41	47.081	3.23	3.375	17	25	5.173	4.964	20.05	1.924	2:579	
	Totals, within Municipal Boundary,	5,791	6,111	102,749	106,317	483,575	503,744	6,301	7,020	566	756	490,442	511,520	21,078		3.44	3.135	10:32	10.689	13.66	13.825	31.31	31.266	49.90	49*777	4.90	5.131	85	84	4.706	4.738	12.74	2:322	2.072	



IADDE IA. OBILI	- OILDIN TID	1110110 1., 001	TOR GROOTS OF	STATISTICAL DIVISIONS.

	U	NDER 1	YEAR.		1	4.		59	9.	1	10	14.		151	9.	20	02	9.	3(03	19.	40	49		50	59		60 A	ND UPWAR	RDS.	Nor Known	. GR	AND TO	TAL.	LAND.	Hou	ses.
	Males.	Females.	Total,	Males.	Femules.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Malcs.	Femules.	Total.	Males,	Females,	Total.	Males.	Females.	Total.	Males.	femates.	Total,	Males.	Females.	Total.	Males. Females.	fales.	emales.	otal,	ORN IN IRE	nhabited.	mpty.
Group I. { Without Institutions and Harbour, Harbour, Do. II. Institutions, 1 Harbour, Harbour, Without Institutions and Harbour, Harbour, Without Institutions and Harbour, Harbour, Harbour, Without Institutions and Harbour, Harbour, Without Institutions and Harbour, Harbour,	943 10 4,564 5 1,437 984 4	3 944 2 2 4,617 1,393	1,883 31 7,9,181 10 5,2,832 1,922 13	15,805 22	3,238 39 15,576 24 4,800 3,249 2	6,600 75 31,381 46 9,542 1 6,407				305 1 4,498 3 4	13,649 200 4,514 1	6,907 119 1 27,077 505 1 9,012 4 4 6,306 175	26 28	4,418 62 13,813 57 4,614 3,488 49	8,452 95 15 27,136 246 20 9,152 26 28 6,976 230 5	8,008 119 70 26,163 177 100 8,870 94 117 6,197 537 15	8,696 163 26,855 160 1 8,266 1 1 5,996 116	16,704 282 70 53,018 337 101 17,136 95 118 12,193 653 15	4,948 121 40 17,819 137 80 5,902 82 65 4,337 453 8	5,696 168 1 18,761 97 1 5,995 1 2 4,511 71	10,644 289 41 36,580 234 81 11,897 83 67 8,848 524 9	50 43	4,503 147 13,760 62 5,158 1 4,009 45	7,930 264 25 25,768 195 50 9,631 43 7,577 408 5	2,283 139 7 7.249 67 15 2,674 31 13 2,182 217	3,170 152 8,922 39 3,364 2,665 6	5,453 291 7 16,171 106 15 6,038 31 1,3 4,847 223 2	1,817 253 3 4,827 122 6 1,751 14 7 1,614 150	2,828 345 7,680 142 1 2,863 1 2,487 9	4,645 598 3 12,507 264 7 4,614 14 8 4,101 159	9 6 15	35,85 96 16 131,15 1,24 27 43,95 30 27 32,31 1,92	4 1,203 1 139,639 7 864 2 86 9 46,021 1 4 7 34,034	$egin{array}{cccc} 2,167\\ 162\\ 270,792\\ 2,111\\ 275\\ 89,980\\ 305\\ 4 & 281 \\ \end{array}$	531 20 30,234 380 45 15,972 97 57 12,690	57,619 15,234 57,619 19,553 13,911	7,730
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	953 4,569 1,437 988	1,395		4,743	3,277 15,600 4,800 3,251	6,679 31,427 9,543 6,410	3,728 16,048 5,074 3,651	3,785 16,078 5,050 3,570	7,513 32,126 10,124 7,221	4.505	3,592 13,849 4 515 3,329	7,027 27,583 9,020 6,482	4,592	4,480 13,870 4,614 3,537	8,562 27,402 9,206 7,211	8,197 26,340 9,081 6,749	8,859 27,016 8,268 6,112	17,056 53,456 17,349 12,861	5,109 18,036 6,049 4,798	5,865 18,859 5,998 4,583	12,047	3,569 12,191 4,566 3,936	4,650 13,822 5,159 4,054	8,219 26,013 9,725 7,990	2,429 7,331 2,718 2,401	3,322 8,961 3,364 2,671	5,751 16,292 6,082 5,072	2,073 4,955 1,772 1,765	3,173 7,823 2,864 2,496	5,246 12,778 4,636 4,261	4 3 7 9 6 18 2 2	36,98 132,67 2 44,53 4 34,27	1 41,967 2 140,506 7 46,029 7 34,551	90,566	30,659 16,126	15,234 57,619 19,553 13,911	1,43 7,73 2,21 1,36
GRAND TOTAL,	7,947	7,925	15,872	27,131	26,928	54,059	28,501	28,483	56,984	24,827	25,285	50,112	25,880	26,501	52,381	50,467	50,255	100,722	33,992	35,305	69,297	24,262	27,685	51,947	14,879	18,318	33,197	10,565	16,356	26,921	16 12 28	248,46	7 263,053	-		106,317	

TABLE IIA.—CENSUS, 1881—GLASGOW: SAME AS TABLE II., BUT FOR GROUPS OF STATISTICAL DIVISIONS.

			13					,			- 01	2111	10110	ILL DI
	GR	OUPS.	П	NDER YEAR.	4,	6-	-14.	-19.	_29.	-39.	-49.	-59.	60 FPWARDS.	NOWN.
				Ta	7	70	10	15-	20-	30-	40	50-	60 AND UPW	Nor K
GROUP Do. Do. Do.	II., III., IV.,			 2·457 3·390 3·147 2·896	8·614 11·588 10·604 9·655	9.650 11.801 11.251 10.808	9·014 9·999 10·015 9·503	11.031 10.020 10.171 10.513	21.80I 19.578 19.044 18.375	13.892 13.508 13.221 13.334	10:349 9:515 10:703 11:419	7·117 5·971 6·710 7·304	6·062 4·618 5·127 6·180	0·009 0·005 0·002 0·006

TABLE IIIA.—CENSUS, 1881—GLASGOW: SAME AS TABLE III., BUT FOR GROUPS OF STATISTICAL DIVISIONS.

	Acre	eage.	Inhabite	d Houses.			POPU	LATION	OF GR	OUPS.				ENCE OF TAL ATIONS.	å	Per	CENTAGE AT	r Certain Vithout In	AGES OF stitutions,	Total Po but includ	PULATION ling Harbon	of each (ar).	GROUP			Acre (i		ons per House (ex	xelnding	F	or 1881 on	y.
					Without I	nstitutions.	Instit	utions.	Harl	bour.	TOTAL PO	OPULATION.	Increase	Decrease.	ler 1.	1-	— 5.	Uu	ler 5.	5—	—20 .	20-	60.	60-			tutious	Instituti Harb	ions and	Percent-	Rooms	Persons per
	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	Therease,	Decrease.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	1871.	1881.	born.	House.	Room.
Group I.,	1,161 3,839 517 274	1,222 4,098 517 274	15,851 43,672 22,299 20,927	15,234 57,619 19,553 13,911	83,307 197,252 106,078 96,938	76,619 270,792 89,980 66,353	1,985 2,550 81 1,685	2,167 2,111 305 2,437	100 200 266	162 275 281 38	85,392 200,002 106,425 98,623	78,948 273,178 90,566 68,828	73,176	6,444 15,759 29,895	 2·452 3·386 3·137 2·894		11.576 10.571	11:532 14:847 14:314 13:399	11.048 14.963 13.709 12.545	29·896 32·056 31·591 30·719	29·654 31·797 31·375 30·817	52·915 48·698 49·365 50·370	53·243 48·622 49·794 50·458	5.655 4.397 4.728 5.510	6·053 4·616 5·120 6·178	74 52 206 360	65 67 175 251	5·255 4·516 4·757 4·632	5·029 4·699 4·601 4·769	6:53 11:22 17:80 19:22	3·657 2·217 1·874 1·929	1·416 2·137 2·471 2·564

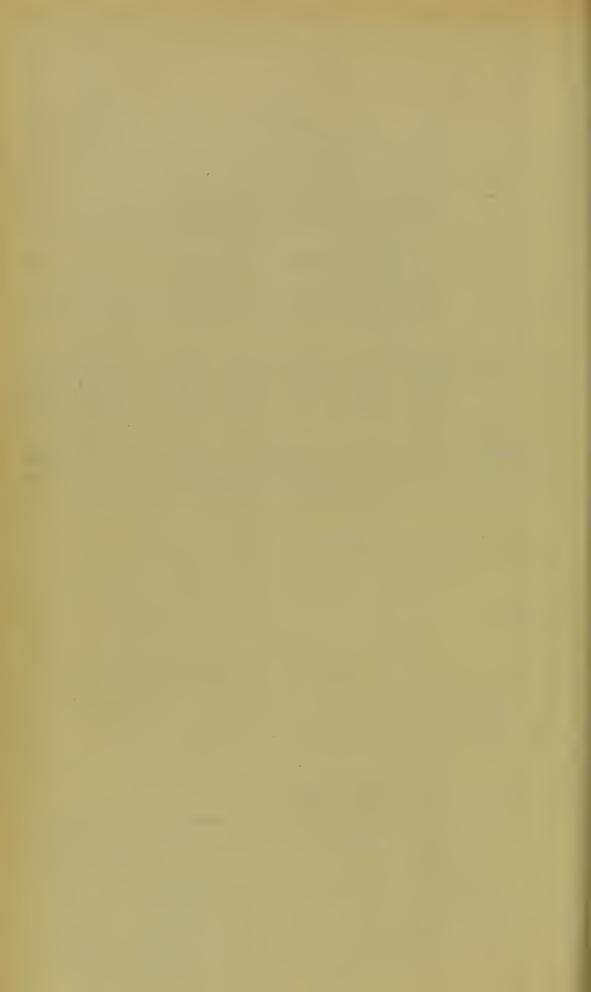


TABLE IV.—CENSUS. 1881—GLASGOW: AGES OF THE POPULATION IN "LANDWARD" PORTIONS OF REGISTRATION DISTRICTS, DISTINGUISHING INMATES OF INSTITUTIONS;

ALSO NUMBER OF IRISH-BORN, AND OF INHABITED AND EMPTY HOUSES.

	_																																						
DAME DE LA COMPANION DE LA COM	Un	DER 1	YEAR.	1		4.	5	g		10-		14.	15	j	19.	20)	29.	30	3	9.	40	4	9.	50-		59.	60 AN	D UPW	ARDS.	Nor I	Znow	/N.	GRAN	ND TOTA	AL.	IN XD.	Hous	SES.
REGISTRATION DISTRICTS.	Мијен,	Femules.	Total.	Males,	f or ales.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females,	Total.	Males,	Females.	Total.	Males,	Females,	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males,	Females.	Fotal.	BORN I	inhabited.	mpty.
ST. ROLLOX,	23	17	40	72	55	127	69	76	145	63	41	104	34	38	72	97	66	163	76	64	140	34	44	78	21	26	47	11	18	29				500	445	945	118	185	48
Without Institutions,	75	107	182	323	298	621	313	305	618	223	228	451	174	225	399	430	417	847	339	274	613	194	184	378	100	102	202	54	79	133				2,225	2,219	4,444	607		
DENNISTOUN Barnhill Poorhouse,	12	6	18	27	25	52	42	. 40	82	26	17	43	9	12	21	44	51	95	31	63	94	50	80	130	55	87	142	241	276	517		} .		537	657	1,194	324		
Mossbank School,				1	1	2	48	2	50	290		290	15	1	16	2	4	6	1	3	4	1	1	2					1	1		1		358	13	371			
HUTCHESONTOWN,	122	123	245	465	437	902	443	436	879	311	309	620	280	210	490	524	509	1,033	445	429	874	249	244	493	104	126	230	88	96	184				3,031	2,919	5,950	432	1,229	274
GORBALS,	99	81	180	333	299	632	313	327	640	262	269	531	206	275	481	410	458	868	336	397	733	225	235	460	126	136	262	82	141	223				2,392	2,618	5,010	152	1,023	162
FRADESTON,	S4	83	167	301	292	593	333	331	664	247	256	503	203	421	624	341	665	1,006	405	427	832	256	285	541	102	159	261	85	175	260				2,357	3,094	5,451	180	1,027	183
XINNING PARK,	272	237	509	913	961	1,874	967	1,019	1,986	813	851	1,664	780	880	1,660	1,349	1,714	3,063	990	1,142	2,132	735	739	1,474	396	446	842	239	309	548	3	1	4	7,457	8,299	15,756	1,554	3,061	484
Total (without Institutions),	675	648	1,323	2,407	2,342	4,749	2,438	2,494	4,932	1,919	1,954	3,873	1,677	2,049	3,726	3,151	3,829	6,980	2,591	2,733	5,324	1,693	1,731	3,424	849	995	1,844	559	818	1,377	3	1	4 1	.7,962	19,594	37,556	3,043	7,389	1,274
Institutions,	12	6	18	28	26		90		_		17	333						_		66	98	51			55			241	277					895	670	1,565			
RAND TOTAL,	687	654	1,341	2,435	2,368	4,803	2,528	2,536	5,064	2,235	1,971	4,206	1,701	2,062	3,763	3,197	3,884	7,081	2,623	2,799	5,422	1,744	1,812	3,556	904	1,082	1,986	800	1,095	1,895	3	1	4 1	.8,857	20,264	39,121	3,367	7,389	1,274

POPULATION (EXCLUSIVE OF INMATES OF INSTITUTIONS), AT VARIOUS PERIODS OF LIFE, IN "LANDWARD" PORTIONS OF REGISTRATION DISTRICTS.

TABLE V.—CENSUS, 1881—GLASGOW: PROPORTION PER CENT. OF THE TOTAL

