

STATISTICS BACK-UP

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LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

## FOURTEENTH

## ANNUAL REPORT

OF THE

## REGISTRAR-GENERAL

OF

# BIRTHS, DEATHS, AND MARRIAGES

IN ENGLAND.



#### LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY.
FOR HER MAJESTY'S STATIONERY OFFICE.

1855.

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BIRTHS, DEATHS, AND MARRIAGES

IN ENGLAND.

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#### REPORT

The Right Honourable SIR GEORGE GREY, Bart., G.C.B., Her Majesty's Principal Secretary of State for the Home Department, &c. &c. &c.

General Register Office,

Sir,

Abstracts of the numbers of the Births, Deaths, and Marriages that were registered in England during the year 1851, have been already presented to Parliament. presented to Parliament. And I have now the honour to submit to you abstracts more in detail, distinguishing the particulars of each marriage,

Table I.—Estimated Population, Number of Marriages, Births, and Deaths registered in England in each Year from 1838 to 1851.

Years ended Dec. 31st.	Estimated POPULATION in England in the Middle of the Years.*	MARRIAGES.	Persons Married.	BIRTHS (exclusive of Still-born).	DEATHS.	Excess of Births over Deaths.
1838	15,312,256	118067	236134	463787	342760	121027
1839	15,515,296	123166	246332	492574	338984	153590
1840	15,721,029	122665	245330	502303	359687	142616
1841	15,929,492	122496	244992	512158	343847	168311
1842	16,123,793	118825	237650	517739	349519	168220
1843	16,320,479	123818	247636	527325	346445	180880
1844	16,519,565	132249	264498	540763	356933	183830
1845	16,721,081	143743	287486	543521	349366	194155
1846	16,925,051	145664	291328	572625	390315	182310
1847	17,131,512	135845	271690	539965	423304	116661
1848	17,340,492	138230	276460	563059	399833	163226
1849	17,552,020	141883	283766	578159	440839	137320
1850	17,766,129	152744	305488	593422	368995	224427
1851	17,982,849	154206	308412	615865	395396	220469

<sup>\*</sup> The Population has been deduced on the assumption that the annual rate of increase was uniform; viz. 1'220 per cent. in each of the 10 years 1841-51, and 1'326 per cent. in each of the 3 years 1838-40.

TABLE II.—Proportion of MARRIAGES, BIRTHS, and DEATHS to the Population of England.

H & I	1 T	o 100 Persons	living.		The Number of Persons living.							
Years ended Dec. 31st.	Marriages.	PERSONS MARRIED.	BIRTHS.	DEATHS.	To one Marriage.	To one Person Married.	To one Birth.	To one Death.				
1838 1839 1840	.839	3.029 3.175 3.195	2°238 2°185 2°288	130 126 128	65 63 64	33 31 31	45 46 44					
1841 1842 1843 1844 1845	*769 *737 *759 *801 *860	1.538 1.474 1.518 1.602 1.720	3°215 3°211 3°231 3°273 3°251	2°159 2°168 2°123 2°161 2°089	130 136 132 125 116	65 68 66 62 58	31 31 31 31 31	46 46 47 46 48				
1846 1847 1848 1849 1850	*861 *793 *797 *808 *860	1.722 1.586 1.594 1.616 1.720	3°383 3°152 3°247 3°294 3°340	2:306 2:471 2:306 2:512 2:077	116 126 125 124 116	58 63 63 62 58	30 32 31 30 30	43 40 43 40 48				
1851	•858	1.716	3.425	2.199	117	58	29	45				
Mean .	*803	1.606	3.244	2.234	125	62	31	45				

Note.—By disregarding the decimal points the Table will show the proportion to every 100,000 persons living.

A correction for increase of population has been made in calculating the above results.

Marriages, 1851.

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birth, and death, which can be compared with the facts that the census of 1851 has now placed at my disposal.

Until the census of 1851 had been taken, the rates of marriage, birth. and of mortality were necessarily calculated on the population returns of 1841; raised, as the population was known to be increasing, in the proportion inferred from the rate that had been found to prevail between 1831 and 1841. We now learn from the census that the population after the year 1841 was overstated to a slight extent by this assumption; the population of England and Wales increased rather faster in the ten years 1831-41 than it did in the ten years 1841-51, when emigration became more active; for the annual rate of increase of the population at home and abroad was 1'326 in the former, 1'216 per cent. in the latter period. The population at home in England and Wales, or exclusive of the portion of the army, navy, and merchant seamen abroad, in the middle of the years 1841 and 1851 was 15,929,492 and 17,982,849; and therefore, upon the hypothesis that the increase was uniformly in a geometrical ratio, the annual rate of increase was 1'220. The rate of increase in the years 1838, 1839, 1840, was taken to be 1.326; the exact proportion of the population at home in 1831 not having been determined.

The change affects the results very slightly.

The year 1851 was a year of prosperity; the marriages and the births exceeded, the deaths were less than, the average numbers. The rate of

TABLE III. - MARRIAGES registered in England in each Year from 1841 to 1851.

*8150	Accor	ding to	the Rite		ne Esta	blished	No	t accordin	ng to th	he Rit Churc	es of h.	the	
DETTY I	1		10 m	Regis-	4		4015	In Retered P	gis- laces.	Regis-		1 2000	E8.
YEARS ending 31st December	Special Licence.	Licence.	Banns.	Superintendent Retrar's Certificate.	Not stated.	Total.	Total.			Superintendent R trar's Office.	Quakers.	Jews.	TOTAL-MARRIAGES,
1841 1842 1843	13 9 8	15792 14985 14544	78015 75744 79849	972 944 1222	19579 18415 18014	114371 110047 113637	8125 8778 10181	588 620 715	0	2064 2357 2817	66 58 61	163	122496 118825 123818
1844 1845	10 10	14930 16013	85176 92867	1558 1706	18335 18919	120009 129515	12240 14228	2816	7181	3446 3977	55 74	180	132249 143743
1846 — — 1847 — — 1848 — — 1849 — —	14 14 13 18 8	17135 17052 16896 16697 17413	92995 84863 86519 90644 98669	1862 1968 2170 2593 3136	18503 16979 15871 13230 11733	130509 120876 121469 123182 130959	15155 14969 16761 18701 21785	2961 3658 4199	7483 8060 8662	4167 4258 4790 5558 6207	68 83 67 53 69	224 184 186 229 260	145664 135845 138230 141883 152744
1851	8	17781	99406	3351	10412	130958	23248	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sec. 10. 10.	6813	65	260	154206
die G	Ma	rriages bety	contrac veen	eted	Re-	-married	. Un	der Age.	Sign	ned th	e Ma	rriage F Marks.	Register
YEARS ending 31st December	Bachelors and Spinsters.	Bachelors and Widows.	Widowers and Spinsters.	Widowers and Widows.	Widowers.	Widows.	Men.	Women.	Men.		Women.	Marriages in which both Signed.	Marriages in which one Signed.
1841 1 1842 1 1843 1 1844 1 1845		6028	11835	6341	1561 1630 1694 1817	$ \begin{array}{c cccc} 5 & 1081 \\ 1 & 1118 \\ 6 & 1236 \end{array} $	1 5511 3 5515 9 6287	16008 16403 17410 19376	3803	1 56 20 60 2 65	680 965 715 073 229	11111	100-4- 10
1849	121324 112576 113284 116134 124031	5997 5705 5920 6102 6575	12212 11667 12702 13155 14558	6131 5897 6324 6492 7580	1834 1756 1902 1964 2213	$ \begin{array}{c cccc} 4 & 1160 \\ 6 & 1224 \\ 7 & 1259 \end{array} $	2 5556 4 6092 4 6650	20001 18118 19436 21105 28109	4748 4242 4316 4402 4757	9 618 6 627 7 651	145 877 771 135 806	32622 32974 —	39062 39989 —
1851	126018	6625	14313	7250	21568	1387	5 7737	24286	1743	9 698	312	36186	44879

marriage was 1.716, of birth 3.425, of death 2.199 to 100 of the population.

#### MARRIAGES.

154206 marriages were celebrated, so 308412 persons were married, or a number equal to 4-fifths of the deaths, and to half of the births. The fact of the rapid increase of marriages in the English population since the Registration Act came into operation is remarkable. It will be seen upon referring to Table I. that 236134 persons married in 1838, and that the marriages have since progressively increased at a faster rate than the population, so that they now exceed that number by 72278.

130958 of the marriages were performed according to the rites of the Established Church; namely, 8 upon special licence, 17,781 after licence, 99406 after banns, 3351 on superintendent registrars certificate; to which numbers should be added certain proportions of 10412 marriages, the mode of which is not indicated by the clergy.

23248 marriages were not performed according to the rites of the Established Church, but 6570 were performed according to the rites of the Roman Catholic Church; 9540 were performed in the registered places of other Christian denominations, and 6813 in superintendent registrars' offices. The number of Roman Catholic marriages exceeded by 947 those in the preceding year; the number in the superintendents' offices also increased; but the numbers in the other registered places of worship, which increased up to 1850, decreased in 1851. 65 marriages were contracted by members of the Society of Friends; and 260 by Jews. The Jewish marriages have increased rapidly; for they were 113 in 1841, and 163 in 1842.

Marriages of minors. Of the men that married 7737 or 5.02 per cent, of the women 24286 or 15.75 per cent. were under 21 years of age; and marriages at these early ages, before the faculties of the mind or the strength of the body have attained maturity, increased in the proportion of 2 to 3 in the ten years.

The counties present great differences in the proportion of early marriages; thus in Bedfordshire 13 in 100 of the males, 27 in 100 of the females that married were not of full age; in Herefordshire these proportions were less than 2 and 8, in Cumberland 4 and 14 in 100.

TABLE IV.—MARRIAGES. The Proportion per Cent. of Minors of each Sex, of Males and Females who signed the Register with Marks, and of Persons who were Widowers or Widows.

NA INC.	To 100 MARRIED.													
YEARS ended		roportion un Years of Age		signed th	Proportion eMarriage with Marks	Register	The Proportion who were							
31st December	Males.	Females.	Mean.	Males.	Females.	Mean.	Widowers.	Widows.	Mean.					
1841 1842 1843 1844 1845 1846 1847 1848 1849 1851	4*38 4*53 4*45 4*17 4*37 4*33 4*09 4*41 4*69 4*88 5*02	13:29 13:47 13:25 13:16 13:48 18:73 18:34 14:06 14:88 15:13 15:75	8.83 9.00 8.85 8.67 8.93 9.03 8.72 9.24 9.79 10.01	32°7 32°0 32°7 32°4 33°2 32°6 31°2 31°2 31°0 31°1 30°8	48*8 47*9 49*0 49*2 49*6 48*2 45*5 45*4 45*9 46*2 45*3	40°8 40°9 40°8 41°4 40°4 38°4 38°5 38°5 38°7 38°1	*12*90 13*14 13*17 12*81 12*64 12*59 12*93 13*76 13*85 14*49 13*98	*8*99 8'90 8'73 8'46 8'60 8'33 8'54 8'86 8'88 9'27 9'00	*10°95 11°02 10°95 10°63 10°62 10°46 10°74 11°31 11°37 11°88 11°49					

<sup>\*</sup> The proportion of Widowers and Widows in the Year 1841 is for the September and December quarters only.

Re-marriages. Of the men that married 132643 were bachelors, 21563 (or 14 per cent.) were widowers; of the women 140331 were spinsters, 13875 (or 9 per cent.) were widows.

Signatures of persons married. The proportion of the men who in signing the marriage register wrote their names was 69 in 100, leaving

Table V.—ENGLAND. Marriages.—Proportional Number of Marriages in the several Counties of England during the Year 1851; of Persons who signed their Names; of Persons not of full Age; and of the Re-marriages of Widowers and Widows.

_	ASSESSMENT OF THE PROPERTY OF	The state of						
		100		d their	Person	s not of	Re-mar	riages.
	REGISTRATION COUNTIES.	ges to	in W	riting.	full	Age.	Widowers.	Widows.
_	tusin mut English to tuning	Marriages to Inhabitants.	Of 100 Men Married.	Of 100 Women Married.	In 100 Men Married.	In 100 Women Married.	In 100 Men Married.	In 100 Women Married.
	ENGLAND	*858	69.2	54.7	5.02	15.75	13.98	9.00
	ILondon.   Middlesex (part of)     Surrey (part of)     Kent (part of)	1°126 1°099 °748	86.9 88.5 89.1	76'9 77'3 74'3	2°44 1°61 1°58	10°14 8°67 9°41	14°29 16°25 14°55	9.68 10.56 11.68
No. 1 2 3 4 5	Surrey (extra-metropolitan) Kent (extra-metropolitan)	*568 *729 *714 *761 *669	65.4 71.5 70.4 72.9 62.9	71.0 65.7 71.2 66.3 65.1	2.60 3.04 3.74 2.38 3.82	15.78 15.17 16.40 13.92 12.87	11.27 12.35 11.92 13.23 14.07	7°72 8°51 8°34 9°94 8°46
6	III.—SOUTH MIDLAND COUNTIES, Middlesex (extra-metropolitan) — Hertfordshire — — — — Buckinghamshire — — — — Oxfordshire — — — — Northamptonshire — — — — Huntingdonshire — — — — Bedfordshire — — — — Cambridgeshire — — —	*564	73.0	70.0	3.64	13.75	12.57	9:17
7		*627	50.0	48.8	7.48	21.90	11.04	8:12
8		*653	57.2	49.7	9.34	18.47	14.76	6:26
9		*733	63.5	61.2	3.75	15.02	15.10	7:27
10		*718	63.5	55.4	7.66	21.48	14.34	7:14
11		*695	58.9	52.7	9.03	23.75	14.01	7:84
12		*731	52.2	40.9	13.43	26.65	15.95	7:14
13		*727	58.0	53.9	7.79	25.02	13.44	7:79
14	IV.—EASTERN COUNTIES.  Essex	*599	55°7	54°9	6.72	22.49	12°52	7*88
15		*680	56°8	53°8	4.84	17.31	13°03	7*45
16		*730	57°9	56°0	5.07	14.29	13°98	7*46
17	V.—SOUTH WESTERN COUNTIES. Wiltshire Dorsetshire Devonshire Cornwall Somersetshire	.678	57°9	53°3	7.69	16°54	16°30	7°20
18		.741	64°0	62°1	5.47	13°06	12°22	6°07
19		.793	73°7	63°7	2.75	10°20	11°45	8°28
20		.786	63°1	48°1	3.63	15°26	10°81	5°58
21		.698	63°7	57°4	5.42	12°43	13°87	7°39
22	VI.—WEST MIDLAND COUNTIES. Gloucestershire Herefordshire Staffordshire Worvestershire Warwickshire	*898	71.4	62.6	4·29	11.22	14.64	8.73
23		*595	60.4	58.7	1·69	7.61	10.83	7.61
24		*659	59.3	52.6	2·16	9.64	13.16	8.84
25		*946	55.2	39.6	7·56	22.52	14.26	11.20
26		*876	64.4	52.4	4·88	15.21	11.78	8.70
27		*950	68.8	57.2	6·25	18.73	14.23	9.22
28	VIINORTH MIDLAND COUNTIES.  Leicestershire  Entlandshire  Lincolnshire  Nottinghamshire  Derbyshire	*839	69.7	56.9	9*49	18.94	14.04	7*47
29		*730	66.3	68.0	6*18	12.92	15.17	3*37
30		*710	70.4	61.3	3*86	16.65	12.79	8*27
31		*902	69.7	51.5	6*38	18.84	13.14	8*18
32		*807	73.8	57.8	6*44	16.71	13.78	7*67
33	VIII.—NORTH WESTERN COUNTIES.  Cheshire Lancashire	*812	67°5	44°6	4.87	14°14	14.57	8.92
34		1*032	64°5	36°8	7.02	18°58	15.44	10.35
35	IXYORKSHIRE.	.965	67°3	40°9	7.73	23°36	14°70	9°54
36		1.021	78°8	60°9	5.26	16°94	15°32	8°95
37		.715	78°9	64°4	2.15	11°74	13°17	6°23
38	X.—NOETHERN COUNTIES.  Durham Northumberland Cumberland Westmorland	*874	73°1	51.7	4.53	18.62	13·26	9°31
39		*783	79°7	61.5	4.23	12.65	13·48	8°46
40		*522	83°7	69.5	4.29	13.95	10·93	6°24
41		*645	83°1	71.4	1.85	12.70	10·58	4°23
42	XI.—MONMOUTHSHIRE AND WALES.  Monmouthshire South Wales North Wales	*829	51°2	38°9	3:94	14.80	11.95	9.71
43		*814	56°0	33°4	3:59	11.34	13.80	8.69
44		*682	56°2	33°7	3:04	8.93	13.49	8.61

31 who signed with marks; of the women 55 in 100 wrote their names, 45 signed with marks. The proportions during the last five years have varied little, and the instruction in the elements of knowledge is still deplorably inefficient in the country generally, and more particularly in the counties of Hertford, Bucks, Huntingdon, Bedford, Cambridge, Essex, Suffolk, Norfolk, Wilts, Shropshire, Staffordshire, Monmouth, and Wales, where less than 40 in 100 men that married made their marks.

There is a curious result deducible from the returns of this year: it appears that in 36186 marriages both husband and wife signed with marks, in 73141 marriages both husband and wife wrote their names, and in 44879 cases either the husband or the wife signed with a mark, while the other party wrote his or her name.

Does this imply that the ignorant have a tendency to marry the ignorant in a greater or less proportion than the learned up to the writing point marry the ignorant, or than those so far learned marry the learned? It is evident from these numbers, that in 24 of every 100 families neither the husband nor the wife can write, that in 47 both can write, and that in 29 one of the two can write. Now as we know the number of the men who could write (106767) and the number (47439) who could not write, as well as the number of women (84394) who could write and the number (69812) who could not write, it is a purely mathematical question in the doctrine of probabilities to determine how many of each of these four classes would come together in pairs if their union were determined simply by lot, and there was no interference of selection between the classes who can write and the classes who cannot write.

In conformity with these doctrines the *number* of marriages in which both parties were unable to write their names should have been 21477, the actual number was 36186; the number of marriages in which both could write should have been 58432, while it was 73141; and on the other hand the number of marriages in which only one could write should have been by the doctrine of chances 74298, and was 44879\*. Thus the ignorant evidently intermarry by choice and the force of circumstances, to a much greater extent than would be inferred from their numbers; and this is important, as the result is, that in 24 of every 100 of the families that are now constituted every year by marriage, the children are without the advantage of having either the father or the mother able to write.

<sup>\*</sup> The combinations that would arise if the unions took place simply in conformity with the doctrine of chances, may be thus illustrated: - In one urn A. put 692 white balls (M.) (representing men who write), and 308 (M') black balls (representing men who do not write); in another urn B. deposit 547 white balls (W.) (representing women who write), and 453 black balls (W'), (representing women who do not write); then upon proceeding to draw balls in pairs, one out of each urn, it is evident that there are two ways in which a black and a white ball may be drawn in a pair; namely (1) a white ball from A., a black ball from B., (2) a black ball from A., a white ball from B.; while there is but one way in which two white balls, and one in which two black balls can be drawn together. Calculation shows that upon drawing and returning every time 100 pairs of balls from the two urns, the most probable of all proportions is, that in 38 cases both balls would be white, that in 14 cases both balls would be black, and that in 48 cases one ball would be white, one would be black. A hundred marriages, instead of varying in the proportions 38, 14, and 48, however, give this result, as has been seen, that in 47 cases both write, in 24 cases both sign with marks, and in 29 cases one writes and one signs with a mark; by lot like to like would arrive 52 times, by selection and the force of circumstances it arrives 71 times. By hypothesis the balls in the two urns are well mixed. The fact that the unlettered predominate in some counties, the writers in other counties, affects the results much as the arrangement of the balls in corresponding strata in the two urns would affect the coincidence of black and white

A new table (V a.) is introduced below, in which the number of marriages of bachelors, of spinsters, of widowers, and of widows respectively is compared with the numbers of the four classes found existing at the

Table V a.—Number of Bachelors, Spinsters, Widowers, and Widows enumerated in each County in the year 1851; also the Numbers and Proportions who were Married.

-	Springer and the sections		***************************************			1				CORP. CO.			
	Marine Research Control Star	90 0	nbers en in 18		ed	Ni	imbers in l	marri 851.	ied	Pro		ns mar	
	REGISTRATION COUNTIES.	Bachelors aged 15 and upwards.	Spinsters aged 15 and upwards.	Widowers.	Widows.	Bachelors.	Spinsters.	Widowers.	Widows.	Bachelors.	Spinsters.	Widowers.	Widows.
	ENGLAND	2297759	2306009	333926	661894	132643	140331	21563	13875	5.8	6.1	6.5	2.1
	I.—London.	007545	251121		610	1.0000	7.000	0000				To the second	
	Middlesex (part of)	221747 54767 18932	271434 68673 17119	26411 7966 2703	22276	16922 4464 863	4767	2822 866 147	1912 563 118	7.6 8.2 4.6	6.6 6.9 5.2	10.7 10.9 5.4	2·3 2·5 2·0
No.	II.—South Eastern Counties. Surrey (extra-metropolitan)	27225	00014	4001	707-	7,000	7004	100	00	0.0		2.2	7.0
1 2 3	Surrey (extra-metropolitan)   -     Kent (extra-metropolitan)   -     Sussex   -   -	67275 43168	26814 59648 44800	4091 9497 7028	7075 16819 11182	1023 3109 2143	3245	130 438 290	89 302 203	3·8 4·6 5·0	4·0 5·4 5·0	3·2 4·6 4·1	1.8 1.8
4 5	Hampshire Berkshire	56973 26341	50028 24580	8166 4403	14536	2662 1148	2763 1223	406 188	305 113	4.7	5.5	5·0 4·3	2.1
•	III.—South Midland Counties.	10001	07724	0000	2002			7.0-					
6 7 8	Middlesex (extra-metropolitan) - Hertfordshire Buckinghamshire	19301 21774 16290	21155 20570 16891	2683 3594 3317		744 975 803	773 1007 883	107 121 139	78 89 59	3·9 4·5 4·9	3.7 4.9 5.2	4·0 3·4 4·2	1.3 1.5 1.2
9	Oxfordshire Northamptonshire	22618 26380	20390 23926	4165 4655		1063 1320		189 221	91 110	4.7	5.7	4.5	1.5
11 12	Huntingdonshire Bedfordshire	6818 13578	6248 16431	1189 2589		362 801	388 885	59 152	33 68	5.3	6.2	5.0	1.6
13	Cambridgeshire	24229	21748	3713		1211	1290	188	109	5.0	5.9	5.1	1.4
14	IV.—EASTERN COUNTIES.	49071	05552	7,100	77027	1000	700-	950	7.00		-	0.5	7.4
15 16	Essex Suffolk	43671 39032 50522	37775 39355 54088	7499 7323 8724	11732	1809 1995 2733	1905 2123 2940	259 299 444	163 171 237	4·1 5·1 5·4	5·0 5·4 5·4	3·5 4·1 5·1	1.4 1.5 1.5
	V.—South Western Counties.												
17 18	Wiltshire Dorsetshire	29290 21604	29646 23866	5208 3530	8626 6522	1371 1156	1520 1237	267 161	118 80	4·7 5·4	5·1 5·2	5°1 4°6	1.4
19 20	Devonshire	70352 43732	80583 46046	9848 5130	23416 14458	4030 2508	4174 2655	521 304	377 157	5·7 5·7	5·2 5·8	5.9	1.6
21	Somersetshire	52401	63787	8289	18396	2750	2957	443	236	5.2	4.6	5.3	1.3
22	VI.—WEST MIDLAND COUNTIES. Gloucestershire	50466	61670	7816	17536	3225	3448	553	330	6.4	5.6	7.1	1.9
23 24	Herefordshire Shropshire	14589 34246	12599 30917	2232 5089	3992 8943	527 1405	546 1475	64 213	45 143	3.6	4.3	2.9	1.6
25 26	Staffordshire Worcestershire	82812 32251	64874 32951	10862 4898	18116 8975	5136 2007	5319 2077	854 268	671 198	6.2	8.2	7.9	3.7
27	Warwickshire	59070	58526	8384	16569	3925	4154	651	422	6.6	7.1	7.8	2.2
28	VII.—NORTH MIDLAND COUNTIES.  Leicestershire	27398	28638	5142	8134	1702	1832	278	148	6.2	6.4	5.4	1.8
<b>2</b> 9 30	Rutlandshire	3377 53386	2937 45809	530 7399	890 13007	151 2488	172 2617	27 365	6 236	4.5	5.9	5.1	1.8
31 32	Nottinghamshire	35837 33361	36×46 31828	5909 5416	9789 8255	2314 1821	2446 1950	350 291	218 162	6.5	6.6	5.9	2.2
0-	VIII.—NORTH WESTERN COUNTIES.	00001	01020	0110	0200	1021	1000	201	102			Same.	
33 34	Cheshire	53660	56155	8018	14301	2949	3144	503	308	5°5 6°7	5.6	6.3	2·2 3·1
94	IX.—YORKSHIRE.	270126	276830	36344	72424	18118	19207	3307	2218	01	6.9	31	9.1
35	West Riding	169720	158300	24952	42692	11073		1908	1238	6.5	7.4	7.6	2.9
36 37	East Riding (with York) North Riding	34411 26395	32705 24513	4603 4351	10094 7517	2205 1213	2371 1310	399 184	233 87	6.4	7·3 5·3	8.7	1.3
90	X.—NORTHERN COUNTIES.	F0004	40000	2020	1400=	9140	9999	400	997	K.0	7.0	C:0	0.4
38 39 40	Durham Northumberland	53964 42972	43282 40106 27002	6963 5504	14285 12209	3140 2066	3283 2186	480 322 112	337 202 64	5.8 4.8 3.2	7.6 5.5 3.6	5·9 3·0	2:4
41	Westmorland	28261 8674	8218	3763 1385	7927 2139	913 338	961 362	40	16	3.9	4.4	2.9	·8 ·7
	XI.—Monmouthshire and Wales.									1	II COS	0.900	
42 43	Monmouthshire	26975 83305	17693 77494	3407 11136	5480 22292	1297 4273	1330 4526	176 684	143	4·8 5·1	7·5 5·8	6.1	2.6
44	North Wales	54483	50515	8102	15729	2392	2527	373	238	4.4	5.0	4.6	1.2

The Table may be read thus:—Of the number of persons enumerated in Berkshire at the Census of 1851 there were of the age 15 and upwards 26341 Bachelors, 24580 Spinsters, 4403 Widowers, and 6934 Widows; the numbers who were married during the same year (1851) were respectively 1148, 1223, 188, and 113, being in the proportion of 4.4 Bachelors, 5.0 Spinsters, 4.3 Widowers, and 1.6 Widows to every 100 living; and so on for the other Counties. By disregarding the decimal point the proportions to 1000 living will be represented.

census in each county in the year (1851). This table supplies a more satisfactory measure of the rate of marriage than the ordinary comparison of the marriages with the population, including a variable proportion of children. Thus of 1000 bachelors in England, 58 married, and the proportions ranged in the counties from 82 in the Surrey portion of London to 36 in Herefordshire, and to 32 in Cumberland. Of 1000 spinsters in England 61 married, and the proportions ranged from 82 in Staffordshire to 36 in Cumberland. Upon carefully inspecting this Table it will appear that the marriages in London are in a high proportion to the marriageable part of the population, and that the proportion in the surrounding counties of Surrey, Middlesex, and Essex is conversely below the average. A certain proportion of the marriages of the country people are apparently contracted in the towns; and in the north of England, it was shown in the last report, that great numbers of the population of the northern counties marry, or pretend to marry, over the borders in Scotland, where the law of marriage is still in a loose and unsatisfactory state. The counties are arranged below in the order of the rate of marriage calculated on the population in the usual way, and it will be seen that they do not follow in the same order as they would if the order of the correct method of comparison were followed.

TABLE V b.—London and the Registration Counties arranged according to the Proportion of Marriages to Population.

\$0000 \$0000	REGISTRATION COUNTIES.	Marriages to 100 Inhabitants.	Bachelors married	Spinsters married	Widowers married	Widows married	- (1 - (1 - (2)
183	A CO-TO AND A CONTROL OF THE	Innaortanes.		60 100 01 8	ach Class.	1475	+217
	London (parts of Surrey, Kent, )	1.099	7.5	6.6	10'3	2.4	-13
100	and Middlesex) { Lancashire	1.032 1.021 .965	6.7 6.4 6.5 6.6	6.9 7.3 7.4 7.1	9°1 8°7 7°6 7°8	3°1 2°3 2°9 2°5	- 18
	Stafford	*946 *902 *898 *876	6.2 6.5 6.4 6.2	8·2 6·6 5·6 6·3	7'9 5'9 7'1 5'5	3.7 2.2 1.9 2.2 2.4	Total Andrews
	Durham	*874	5.8 6.2	7.6 6.4	6°9 5°4	1.8	9470 H
1 13 1 13	Leicester	*829 *814 *812 *807	4.8 5.1 5.5 5.5	7.5 5.8 5.6 6.1	5·2 6·1 6·3 5·4	2.6 1.9 2.2 2.0	10 may 10
29%	Devon	793 786 783 761 741	5.7 5.7 4.8 4.7 5.4	5°2 5°8 5°5 5°5 5°5	5°3 5°9 5°0 4°6	1.6 1.1 1.7 2.1 1.2	7 7 8A 2 33/2 399/L
1000	Oxford Bedford	'733 '731	4.7	5.7	4.5	1.5	
agent at red to	Norfolk	.730 .730	5·4 4·5 4·6	5.4 5.9 5.4	5°1 7°1 4°6	1.5 .7 1.8	es accionation d
	Kent (Extra-metropolitan) — Cambridge — — — — Northampton — — — — N. Riding — — — — — Sussex — — — — —	729 727 718 715 714 710	5.0 5.0 4.6 5.0 4.7	5·9 6·0 5·3 5·0 5·7	5·1 4·7 4·2 4·1 4·9	1.7 1.6 1.2 1.8 1.8	
	Somerset Huntingdon	*698 *695 *682 *680	5.2 5.3 4.4 5.1	4.6 6.2 5.0 5.4	5°3 5°0 4°6 4°1	1.3 1.6 1.5 1.5	
	Suffolk       -       -       -       -         Wilts       -       -       -       -         Berks       -       -       -       -         Salop       -       -       -       -         Bucks       -       -       -       -         Westmorland       -       -       -       -	669 669 653 645	4.7 4.4 4.1 4.9 3.9	5·1 5·0 4·8 5·2 4·4	5·1 4·3 4·2 4·2 2·9	1.4 1.6 1.6 1.2	
	Hertford	*627	4.5	4.9	3.4	1.5	
	Essex	599 595 568 564 522	3.6 3.8 3.9 3.2	4·3 4·0 3·7 3·6	2·9 3·2 4·0 3·0	1·1 1·3 1·3 ·8	

The Table (V c.) shows, for the first time approximately the rate of marriage at different ages, and will admit of many useful applications in the solution of questions of population, as well as in the calculation of rates of insurance under certain contingencies. It will be noticed that 127 per 1000 of the spinsters of the age of 20-25 married in the year; and that marriage was contracted by 3 in 1000 spinsters of the advanced age of 55-60.

The greatest number of marriages (45531) took place in the quarter that ended on December 31st, the least number (32724) in the winter quarter that ended on March 31st. The marriages in the quarter that ended in June and September amounted to 38635 and 37316.

Besides the churches of the Establishment, 3228 buildings belonging to different religious bodies were on the register in 1851 for the solemnization of marriage in England; 1197 of the buildings belonged to the Independents,

Table V c.—ENGLAND. Number of Bachelors, Spinsters, Widowers, and Widows at different Ages who were enumerated; also the Numbers and Proportions who were Married in the Year 1851.

news of	Num	bers enun	nerated in	1851.	Estima	ted Num 1851 (se	bers mar	rried in	Proportion married to 100 living.			
AGES.	Bachelors.	Spinsters.	Widowers.	Widows.	Bachelors.	Spinsters.	Widowers.	Widows.	Bachelors.	Spinsters.	Widowers.	Widows.
Total -	2297759	2306009	333923	661894	132643	140331	21563	13875	5.773	6.085	6.457	2.096
15- 20- 25- 30- 35- 40- 45- 50- 55- 60- 65- 70- 75- 80 & up.	869325 633842 308363 159956 95889 67380 47522 37155 25815 21649 13055 9629 5068 3111	861453 598732 306807 163604 99143 71520 51044 43102 30823 29550 19319 15217 8837 6758	76 2168 8290 14249 18584 24576 27172 34057 32586 41725 37567 39284 28139 25453	260 4326 14303 26328 34839 49207 54868 70033 67181 88283 77698 74625 52527 47416	4035 71049 37647 12558 4371 1885 688 262 90 33 19 3	18807 75872 29136 9857 3759 1789 1789 258 96 25 5	667 2967 4079 3775 3459 2407 1945 1043 728 324 124 28 17	13 850 2132 3057 2527 2132 1466 909 491 213 53 19 8	·464 11·209 12·209 7·851 -4·558 2·798 1·448 ·705 ·349 ·152 ·146 ·031 ·059 -	2·183 12·672 9·503 6·025 3·780 2·501 1·418 ·599 ·311 ·085 ·026 - - ·044	30·766 35·79·) 28·627 20·313 14·075 8·858 5·711 3·201 1·745 ·862 ·316 ·100 ·067	5:000 19:649 14:906 11:611 7:253 4:333 2:672 1:298 :731 :241 :068 :025 :015

The Table may be read thus:—Of the Persons enumerated in 1851 of the age of 20 and under 25 there were 633842 Bachelors, 598732 Spinsters, 2168 Widowers, and 4326 Widows, while the numbers who were married during the same year and of the same ages were respectively 71049, 75872, 667, and 850, being in the proportion of 11 209 Bachelors, 12 672 Spinsters, 30 766 Widowers, and 19 649 Widows married to every 100 living, and so on at other ages. By disregarding the decimal point the proportions to 100000 living will be represented.

Note.—Of the Total Number of Marriages solemnized in 1851 the ages of the Males and Females were stated only of the following numbers; viz., 48555 Bachelors, 51141 Spinsters, 7792 Widowers, and 5206 Widows. In this Table these numbers have been proportionally raised to the total numbers married under these respective headings.

TABLE VI.—MARRIAGES in each quarter of the Years 1838 to 1851.

YEARS.			ng the last day o	
	March.	June.	September.	December.
1838	23201	29801	27764	37301
1839	24679	31339	29887	37261
1840	26395	30786	29221	36263
1841	24447	32551	29397	36101
1842	25860	30048	27288	35629
1843	25285	31113	28847	38573
1844	26387	34268	31675	39919
1845	29551	35300	35003	43889
1846	31417	37111	35070	42066
1847	27480	35197	32439	40729
1848	28398	34721	32995	42116
1849	28429	35844	33874	43736
1850	30567	39204	37636	45337
1851	32724	38635	37316	

744 to the Baptists, 341 to the Wesleyan Methodists of the original connection, 378 to the Roman Catholics. (Table VII.)

#### BIRTHS.

The births of the year (615865, exclusive of stillborn) were at the rate of 3.425 per cent. on the population, or 1 in 29 nearly, which is a much higher rate than has been before observed. To every 1000 girls 1047 boys were born; but to every 1000 girls born out of wedlock, only 1039 boys were

TABLE VII.—Number of Buildings in England and Wales Registered for the Solemnization of Marriages under the Act of 6 & 7 Will. IV. c. 85. to 31st December 1851.

		RESB		1				w	ESLI	EYAN	MET	нор	ISTS.	.	CALVIN		1	
COUNTY.	Church of Scotland.	United Presbyterians.	Preshyterian Church in England and Unitarians.	Independents.	Baptists.	Moravians.	Roman Catholics.	Original Connexion.	New Connexion.	Primitive Methodists.	Wesleyan Methodist Association.	Independent Methodists.	Wesleyan Reformers.	All others.	Welsh Calvinistic Me- thodists.	Countess of Hunting-dou's Connexion.	Residue.	TOTAL.
TOTAL in ENGLAND and WALES	28	27	169	1197	741	2	378	341	39	71	37	4	-	10	60	31	90	3228
Dulloik	33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	333333333333333333333333333333333333333	1 - 4 34 2 2 9 9 - 4 1 1 10 2 1 - 7 7 7 2 4 4	34 31 22 23 26 7	5 2 9 244 188 7 188 15 166 155 166 155 156 156 156 156 156		8 6 22 8 5 2 12 4 6 6 7 7 5 9 23 4 4 6 6 3 14 1	3 6 4 1 5 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 6 6 2 1 1 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-	1	1111111111	1 - 1 4 1 1 1 1 1 1 1 1 1		74 72 54 73 43 25 4 44 100 73 84 61 63 55 66 61 62
WALES.  Anglesey - Brecon - Cardigan - Carmarthen Carnaryon - Denbigh - Flint - Glamorgan - Merioneth - Montgomery Pem roke - Radnor -			3 - 3 - 1 - 1 - 1	36	5 11 5 12 5 12	77 - 77	11 12 3								- 5	1		8 30 44 68 24 24 10 75 19 30 49 5

Note.—The above numbers are for the Counties proper, and not for "Registration Counties."

Births.

born. The sex of the child is supposed to be influenced, to a certain extent, by the relative ages of the parents; but the truth of this cannot be tested by the English returns.

42000 children were born out of wedlock in the year 1851, that is 6.8 or nearly 7 in 100 of the children were born under circumstances which often shorten and sometimes embitter their lives.

Table VIII.—ENGLAND. BIRTHS, 1851.—Number and Proportion of Male and Female Children born in and out of Wedlock.

3	Zomaro			or it it	and	ut of	vv edio	CK.			12
01	REGISTRATION COUNTIES.	Children	Children	A STATE OF THE PARTY OF THE PAR	rn in		out of dlock.	born to 100 FE- born.	rn in Wed- every 100 is so born.	rn out of to every	Hock to Births.
		Male (born.		Males.	Females	Males.	Females.	MALES every MALES	Males born in Wed- lock to every 100 Females so born.	MALES born out of Wedlock to every 100 FEMALES so born.	CHILDREN born out of Wedlock to every 100 Births
	ENGLAND ILondon.	31496	8 300897	293571	280294	21397	20603	104.7	104.7	103.9	6.8
	Middlesex (part of) Surrey (part of) Kent (part of)	29422 8410 2224	28169 8118 1957	28188 8084 2169	26974 7781 1901	1234 326 55	1195 337 56	104.4 103.6 113.6	104.2 103.9 114.1	103·3 96·7 98·2	4·2 4·0 2·7
	Surrey (extra-metropolitan) - Kent (extra-metropolitan) - Sussex	2955 8280 5474 6551 3188	3022 7896 5253 6272 3028	2779 7761 5106 6149 2943	2822 7387 4897 5902 2816	176 519 368 402 245	200 509 356 370 212	97*8 104*9 104*2 104*4 105*3	98.5 105.1 104.3 104.2 104.5	88.0 102.0 103.4 108.6 115.6	6·3 6·4 6·7 6·0 7·4
10	Hertfordshire	2299 3019 2501 2840 3876 1099 2385 3296	2112 2900 2415 2716 3636 1056 2381 3285	2162 2782 2329 2579 3608 1038 2198 3071	1991 2671 2229 2524 3368 991 2228 3043	137 237 172 261 268 61 187 225	121 229 186 192 268 65 153 242	108'9 104'1 103'6 104'6 106'6 104'1 100'2 100'3	108.6 104.2 104.5 102.2 107.1 104.7 98.7 100.9	113·2 103·5 92·5 135·9 100·0 93·8 122·2 93·0	5·8 7·9 7·3 8·2 7·1 5·8 7·1 7·1
14 15 16	Suffolk	5814 6002 7413	5504 5364 6932	5433 5465 6590	5107 4899 6156	381 587 823	397 465 776	105.6 111.9 106.9	106:4 111:6 107:1	96.0 115.5 106.1	6.9 8.8 11.1
17 18 19 20 21	V.—South Western Counties.  Wiltshire Dorsetshire Cornwall Somersetshire	3962 2914 8765 6136 7193	3810 2843 8532 5895 6928	3696 2737 8300 5822 6691	3513 2648 8062 5548 6439	266 177 465 314 502	297 195 470 347 489	104.0 102.5 102.7 104.1 103.8	105°2 103°4 103°0 104°9 103°9	89.6 90.8 98.9 90.5 102.7	7·2 6·5 5·4 5·5 7·0
22 23 24 25 26 27	Shropshire   Staffordshire	6656 1439 3570 2712 4377 8990	6440 1341 3444 12238 4214 8649	6232 1292 3202 11852 4059 8457	6043 1205 3120 11423 3921 8150	424 147 368 860 318 533	397 136 324 815 293 499	103:4 107:3 103:7 103:9 103:9 103:9	103°1 107°2 102°6 103°8 103°5 103°8	106.8 108.1 113.6 105.5 108.5 106.8	6·3 10·2 9·9 6·7 7·1 5·9
28 29 30 31 32	Rutlandshire Nottinghamshire	4467 364 6788 5108 4563	4131 384 6524 4953 4361	4103 335 6261 4639 4210	3796 364 6066 4467 4002	364 29 527 469 353	335 20 458 486 359	108°1 94°8 104°0 103°1 104°6	108.1 92.0 103.2 103.9 105.2	108.7 145.0 115.1 96.5 98.3	8·1 6·6 7·4 9·5 8·0
33 34		7657 1003	7362 38687	6997 38070	6748 35864	660 2936	614 2823	104.0	103.7	107:5	8.5
35 36 37	IX.—YORKSHIRE.  West Riding — — — 2 East Riding (with York) — — 2	62 <b>23</b> 2	25364 4107 3055	24437 3993 2882	23596 3812 2797	1786 268 265	1768 295 258	103.4 103.7 103.0	106°2 103°6 104°7 103°0	101.0 90.8 102.7	7·2 6·9 6·7 8·4
38 39 40 41	X.—Northern Counties.  Durham 8 Northumberland 8 Cumberland 8 Westmorland	3541 5552	8116 5074 3157 864	8058 5119 3005 852	7649 4684 2849 783	483 433 376 83	467 390 308 81	105°2 109°4 107°1 108°2	105°3 109°3 105°5 108°8	103.4	5·7 7·7 10·5 9·1
42 43 44	South Wales 10	0105	2993 9663 5752	2969 9360 5507	2840 8950 5268	169 745 463	153 713 484	104.8 104.6 103.8	104.5 104.6 104.5	110.5 104.5 95.7	5·3 7·4 8·1

The proportion of the births out of wedlock is by the returns lowest in London (4 in 100); but it is probable that in many instances the births of these children are not registered or are not distinguishable in the large towns.

TABLE VIII a.—ENGLAND. Number of MARRIED and UNMARRIED WOMEN enumerated on 31st March 1851; the Number of BIRTHS IN WEDLOCK and OUT OF WEDLOCK registered in 1851; and the Proportion of Births in Wedlock to Married Women, and Births out of Wedlock to Unmarried Women.

	le stranger, adv et skin le state oft stratefor	En	umerat	ed in 185	1.	BIRTH	s REGIST	ERED	Propor of Bir in Wee	ths	Propor of Bir out of We to 10	ths edlock
	DIVISIONS	MARI Wom		UNMAR WOM AND WI	EN		in 1851.	noite E	to 1 Marr Won	00 ied	Unmai Womer Wido	rried n and
RI	EGISTRATION COUNTIES.	Under the Age of 40.	Under the Age of 55.	Of the Ages 20—40.	of the Ages 15—55.	Total Births.	In Wedlock.	Out of Wedlock.	Under the Age of 40.	Under the Age of 55.	the Age of 20 40.	the Age of 15—55.
	ENGLAND	1630456	2553894	1248182	2449669	615865	573865	42000	35'197	22:470	3.365	1.715
I. III. IV. V. VII. VIII. IX. X. XI.	DIVISIONS:  LONDON	244981 138658 108715 97332 145750 194071 106296 242726 168041 87342 96544	221535 173195 156785 242696 305154 171511 365435 259109 134636	109554 76136 68357 128739 137965 75658 187195 113136 61615	389953 215191 154511 137251 252337 275769 153631 363192 229958 125628 152248	78300 51919 41816 37029 56978 74070 41643 94712 66157 35620 37621	75097 48562 38812 33650 53456 68956 38213 87679 61517 32999 34894	3203 3357 3004 3379 3522 5114 3400 7033 4640 2621 2727	30°654 85°023 35°701 34°572 36°677 35°531 35°978 36°123 36°608 37°781 36°143	20*425 21*920 22*409 21*463 22*020 22*597 22*298 23*998 23*742 24*510 22*344	4'943 2'736 3'707 4'494 3'757 4'101 4'254	*821 1 * 560 1 * 944 2 * 462 1 * 396 1 * 854 2 * 213 1 * 936 2 * 018 2 * 086 1 * 791
1 2 3 4 5	II.—South Eastern Counties. Surrey (extra-metropolitan) Kent (extra metropolitan) ! Sussex Hampshire Berkshire	16413 41687 28584 85752 16222	66308 45779 56037	14699 31403 28765 26935 12752	27815 62237 46881 52849 25409	5977 16176 10727 12823 6216	5601 15148 10003 12051 5759	376 1028 724 772 457	34°125 36°337 34°995 33°707 35°501	22*84:	2.558 3.274 3.047 2.866 3.584	1°352 1°652 1°544 1°461 1°799
6 7 8 9 10 11 12 13	III — SOUTH MIDLAND COUNTIES.  Middlesex (extra-metropolitan) — Hertfordshire — — — — — — Oxfordshire — — — — — — Northamptonshire — — — — — Huntingdonshire — — — — — Bedfordshire — — — — — — Cambridgeshire — — — —	12521 14022 19621 5594	23980 20212 22956 31026 8736 18653	10634 8421 10589 12040 3018 8256	21696 17369 21282 24973 6653	5919 4916 5556 7512 2155 4766	4153 5453 4558 5103 6976 2029 4426 6114	258 466 358 453 536 126 340 467	33*489 36*590 36*403 86*393 35*554 36*271 36*624 34*802	22.74( 22.551 22.22( 22.484 23.22 23.72(	4°175 4°118	1'172 2'148 2'061 2'129 2'146 1'894 1'973 2'005
14 15 16	IV.—EASTERN COUNTIES.  Essex	29278	47027	20089	39836 40943 56472	11366	10540 10364 12746	778 1002 1599	34.603 35.398 33.904	22.038		1.953 2.447 2.832
17 18 19 20 21	V.—South Western Counties.  Wiltshire	00000	3 23667 78404 3 47045	12177 43734 2 23797	24480 83413 48536	5757 3 17297 3 12031	16362 11370	563 372 935 661 991	36.766 37.928 34.698 39.868 36.206	22.75 20.869 24.170	3.055 2.138 2.778	1.852 1.520 1.121 1.362 1.513
22 23 24 25 26 27	Herefordshire	3593 720 1821 6231 2293 4747	3 1265 2 3160 5 9322 3 3654	6631 16247 5 32687 17302	12845 3189 6974 2 3413	9 2780 6 7014 2 24950 7 8591	2497 6322 23275 7980		37.35	1 19.73 20.00 1 24.96 7 21.83	4 · 268 4 · 259 5 · 124 6 3 · 531	1.273 2.203 2.170 2.402 1.790 1.648
28 29 30 81 32	Rutlandshire	2088 185 3431 2618 2306	7 317 2 5522 3 4233	4 1548 0 23618 7 19129	307 4821 3882	6 748 3 13312 9 10061	$\begin{bmatrix} 699 \\ 12327 \\ 9106 \end{bmatrix}$	985 955	37.64 35.92 34.77	1 22.02 6 22.32 8 21.50	3°172 4°171 4°992	1.593 2.043 2.460
33 34	Cheching	3925 - 3925 20346										
35 36 37	East Riding (with York) - North Riding	- 12924 - 2376 - 1508	3709	2 1736	6 3481	8 8368	3   7805	568	32.84	0 21.04	3 242	1'617
38 39 40 41	Northumberland Westmorland	- 4119 - 2658 - 1539 - 417	80 4134 97 2489 71 694	11 2132 30 1433	7 4228 1 2798	32 1062 38 653	8   9808 5854	823	36.88	1 23°71 20 23°51	3.859 4.773	1.947
42 43 44	XI.—Monmouthshire & Wales Monmouthshire South Wales North Wales	5.   1714 - 4954 - 2984	45 2590 45 791	95 4167	1 8090	06 1976	8   18310	145	8 36.9	66 23.13	21 3.499	1.802

In seven counties, exclusive of those of the metropolis, the proportion of births out of wedlock is less than 6 in 100 births; namely, 5.3 in Monmouth, 5.4 in Devon, 5.5 in Cornwall, 5.7 in Durham, 5.8 in the Extra-metropolitan part of Middlesex, 5.8 in Huntingdon, 5.9 in Warwick; in six counties the proportion of illegitimate births exceeds 9 in 100 births, namely, 9.1 in Westmorland, 9.5 in Nottingham, 9.9 in Shropshire, 10.2 in Herefordshire, 10.5 in Cumberland, and 11.1 in Norfolk; so that in Norfolk 1 in 9 of the children, and in Devon 1 in 19, are born out of wedlock.

These returns show that great differences exist in the manners of different counties; and they undoubtedly imply varieties in the state of the family relations, in the social education of children, and in the morals of the people. But it must not be immediately assumed, as has been sometimes done, in comparing the counties of England and Wales, any more than in comparing the results of our returns with those of other

TABLE VIII b. — Proportion of BIRTHS OUT OF WEDLOCK (1) to 100 UNMARRIED WOMEN, and (2) to 100 BIRTHS; also the Proportion per Cent. of Married Women who signed with Marks in 1851.

REGISTRATION COUNTIES.	out of V	n of Births Vedlock rried Women Vidows.	Children born out of Wedlock	Proportion per Cent. of Married
	Of the Age of 20—40.*	Of the Age of 15—55.	to every 100 Births.	Women who signed with Marks.
Devonshire	1'87 1'89 2'11 2'24 2'43 2'51 2'54 2'67 2'67 2'78	1·12 1·17 1·27 1·35 1·36 1·46 1·51 1·54 1·52	5·4 5·8 6·3 6·3 5·5 6·0 7·0 6·7 6·5 6·6	36 30 37 29 52 34 43 29 38 32
Dorsetshire	2:84 2:87 2:91 3:09 3:14 3:30 3:38 3:40 3:49 3:59	1.62 1.65 1.65 1.79 1.80 1.85 1.95 1.97 1.95 2.09	6.7 6.4 5.9 7.1 7.4 7.2 7.7 9.1 6.9 8.4	39 34 43 48 85 47 38 29 45 86
Bedfordshire       -       -       -         Cheshire       -       -       -         Cambridgeshire       -       -       -         Huntingdonshire       -       -       -         Buckinghamshire       -       -       -         Shropshire       -       -       -         Herefordshire       -       -       -         West Riding       -       -       -	3.60 3.63 3.64 3.65 3.65 3.72 3.73 3.73 3.74 3.75	1:97 2:12 2:01 2:04 1:89 2:06 2:17 2:20 2:13 2:09	7:1 8:5 7:1 7:4 5:8 7:3 9:9 10:2 6:9	59 55 46 39 47 50 47 41 39 59
Derbyshire	3.81 3.82 3.83 3.90 4.08 4.18 4.36 4.37 4.48 4.87	2·14 2·02 2·15 2·15 2·32 2·44 2·45 2·46 2·40 2·83	8:0 5:7 7:9 7:1 8:1 10:5 8:8 9:5 6:7 11:1	42 48 51 45 43 30 46 48 60 44
The following Sub-divisions d preceding i	o not fairly n reference	admit of corto Education	mparison wi n:	th those
London	1:32 3:04 3:06 3:12 3:22	*82 1 *68 1 *80 1 *82 1 *90	4·1 5·3 7·4 8·1 7·2	23 61 67 66 63

<sup>\*</sup>The figures in this column are deduced from those in the last column but one of Table VIII a.; reduced by 1-eighth part for children born to women either under the age of 20 or above the age of 40.

countries, that the relative morality of the population is expressed by these numbers.

The mothers of all the children that are born in the country are between the ages of 15 and 55; and the greater part of them are between the ages of 20 and 40. The English schedule is defective, as it does not show the age of the father and mother at the birth of the child; but it may be inferred from the Swedish returns that not more than 1 in 8 women who bare children is under the age of 20 or above the age of 40. The numbers of women married and unmarried in each county at the two divisions of age, as ascertained at the census, are shown in the subjoined Table VIII a.; also the births of children in each of the two classes, and the proportional numbers of children to women.

It thus appears that in 1851 there were in England and Wales 2,553,894 married women under the age of 55, and that the children born alive in wedlock were 573865; so that 22 in 100 bore living children. The number of unmarried women,—spinsters and widows inclusive,—of the same age (15-55) was 2,449,669; and as the number of children born out of wedlock was 42000, it would appear that to 100 of them 1.7 children were born. The proportion of children to 100 married women under the age of 55, ranges between 19.73 in Herefordshire and 25.56 in Durham; the proportion of children to 100 unmarried women (age 15-55) ranges between 1.12 in Devon and 2.83 in Norfolk.

The number of women of the age (20-40) in England and Wales at the time of the census, was 2,856,398; of whom 1,248,182 were unmarried, 1,608,216 were married. And if 11.967 per cent. of the children are deducted, belonging, as it may be inferred, to the women under 20 and above 40, it will follow that to every 100 women of the age 20-40 about 18.981 children are born annually, to every 100 unmarried women 2.962, and to every 100 married women 31.413 children.

These facts may well calm the apprehensions of those who entertain any dread of the depopulation of the kingdom; and they present in an encouraging aspect the great resources of the English population for colonization or for war.

The relative proportions of the unmarried women who gave birth to children in the year 1851 are shown in the annexed Table (VIII a.), which will probably give rise to further inquiries, and lead to some important results.

Excluding London from view, as the returns are probably imperfect, it may be inferred that generally the unmarried women in the counties south of the Thames, comprising the descendants of the old Saxon population, have few illegitimate children: Wales stands next in the scale: the West Midland, the North Western, and the South Midland counties, covering the area of the ancient Mercia, present less favourable results; while in Yorkshire, the Northern counties, the North Midland counties, and particularly the Eastern counties, covering the area of the ancient Danish population, the number of illegitimate children is excessively great.

The women of the counties in which there are fewest illegitimate children appear to be the best mothers and housewives, as, other things being equal, they lose fewer of their children in infancy than the women of counties where many children are born out of wedlock.

With the facts in these tables before them, it will be for the clergy and for other moral inquirers in each county to investigate the causes of the discrepancies which they disclose, and to ascertain how the existing evils can be most efficaciously and successfully treated. To facilitate such inquiries, which should be elaborate and not be confined to a single class of causes, the counties are arranged (Table VIII b.) in the order that the proportion of mothers of illegitimate children of the age 20-40 bear to 100 unmarried women of the same age; commencing with the counties

The Table may be read thus, disregarding the decimal point:—In Norfolk to every 10,000 women unmarried, and of the age 20—40, there were 487 children born in the year 1851; or to every 10,000 women of the age 15—55 there were 283 children born; of 1000 children born 111 were born out of wedlock; of 100 women married 44 signed the register with a mark.

in which the proportion is lowest. A column is added which shows the state of elementary instruction among the women who married, and thus throws some indirect light on the education of the class of unmarried women in each county.

The seasons exercise some influence on the births; and the number of births that were registered in the first two quarters of the year were 157286 and 159073, whilst the births in the last two quarters were 150594 and 148912. (Table X.) The illegitimate births were very

TABLE IX.—ENGLAND. BIRTHS, 1851.—PROPORTIONAL Number of BIRTHS registered in each Registration County in the Year 1851, and in each Season of the Year; or the Number of Births in each Quarter to 1000 Births in the Average Quarter.

400	20 And I wanted of Births in each	- Quarte	1				
FI.	forthe seed port this not t	BIRTHS	P	roportional	Number of E	Births registe	red.
100 H	REGISTRATION COUNTIES.	to 100 Persons living.	In the AVERAGE QUARTER assumed to be 1000.	In the FIRST QUARTER ending March 31.	In the SECOND QUARTER ending June 30.	In the THIRD QUARTER ending Sept. 30.	In the FOURTH QUARTER ending Dec. 31.
98.5 5.5	ENGLAND	3.425	1000	1022	1033	978	967
*(	Middlesex (part of)	3·283 3·409 3·095	10 <sup>0</sup> 0 1000 1000	1037 1044 1051	977 991 945	977 966 1003	1008 1000 1002
No. 1 2 3 4 5	Surrey (extra-metropolitan) Kent (extra-metropolitan) Sussex Hampshire Berkshire	2.943 3.324 3.149 3.180 3.111	1000 1000 1000 1000 1000	1064 1059 1095 1028 1051	963 935 1001 1001 1012	963 981 910 956 971	1011 1025 993 1016 996
6	III.—SOUTH MIDLAND COUNTIES.  Middlesex (extra-metropolitan) — Hertfordshire — — — — Oxfordshire — — — — Northamptonshire — — — — Huntingdonshire — — — — Bedfordshire — — — — Cambridgeshire — — — —	2.921	1000	1024	981	973	1022
7		3.388	1000	1053	1078	945	923
8		3.410	1000	1059	1016	937	988
9		3.254	1000	1055	1024	945	976
10		3.500	1000	1041	987	976	996
11		3.557	1000	1084	1006	1008	902
12		3.655	1000	1104	1002	933	960
13		3.418	100	1034	1046	968	952
14	IV.—EASTERN COUNTIES.  Essex	3°277	1000	1055	1030	952	963
15		3°369	1000	1076	1076	928	919
16		3°298	1000	1058	1058	947	938
17	V.—South Western Counties.  Wiltshire	3°217	1000	1009	1025	979	988
18		3°238	1000	1031	1065	967	937
19		3°013	1000	1050	1040	943	968
20		3°361	1000	1117	1050	929	904
21		3°087	1000	1048	1019	998	935
22	VI.—WEST MIDLAND COUNTIES.  Gloucestershire	3°114	1000	1055	1010	976	959
23		2°799	1000	1045	983	1006	967
24		2°859	1000	1001	1057	981	961
25		3°942	1000	1002	1051	983	965
26		3°309	1000	1012	1051	941	996
27		3°662	1000	1002	1024	968	1005
28	VII.—NORTH MIDLAND COUNTIES.  Leicestershire	3.644	1000	1030	1044	983	943
29		3.068	1000	941	1166	898	995
30		3.315	1000	997	1011	1006	986
31		3.407	1000	1000	1021	994	984
32		3.411	1000	982	1056	1037	925
33	VIII.—NORTH WESTERN COUNTIES.  Cheshire Lancashire	3.532	1000	1026	1090	982	901
34		3.840	1000	1011	1062	976	951
35	IX.—YORKSHIRE.  West Riding	3*835	1000	990	1050	1009	951
36		3*281	1000	977	1031	1014	979
37		3*175	1000	936	1028	1003	1032
38	X.—NORTHERN COUNTIES.  Durham	4*024	1000	912	1078	1027	984
39		3*486	1000	964	1051	973	1011
40		3*332	1000	1002	1049	997	951
41		3*070	1000	923	1063	1007	1007
42	XI.—MONMOUTHSHIRE AND WALES.  Monmouthshire South Wales North Wales	3*449	1000	1046	1041	1009	903
43		3*245	1000	1007	1055	988	949
44		2*891	1000	980	1118	1006	895

equally distributed over the year, and amounted to 10802, 10526, 10256, and 10416 in the four quarters.

### DEATHS.

395,396 deaths were registered in 1852.

The mortality of the population in the year was at the rate of 2·199 per cent., which is in excess of the mortality in 1850, but is below the average mortality (2·234) of the 14 years 1838-51. The mortality of males was at the rate of 2·276, of females at the rate of 2·124 per cent. The mortality of childhood (age 0-5) was slightly above the average in both sexes; but at every other period of life the mortality was below the average.

The Table (XII.) shows the rate of mortality at twelve periods of life in the two sexes; and it will be noticed that in the two divisions of the table, the mortality decreases from infancy to the age of puberty; it then increases slowly up to 55, and after the age of 55 the rate of mortality is doubled every ten years of age.

The influence of the seasons on the mortality is shown in the Tables XIII. and XIV.

### MORTALITY OF PERSONS ENGAGED IN DIFFERENT OCCUPATIONS.

The previous investigations of the various rates of mortality in the districts of the kingdom, have showed how much the health and life of

TABLE X.—BIRTHS registered in each Quarter of the Years 1838 to 1851.

	-			Quarters ending	the last day of	
		Years.	March.	June.	September.	December.
dire.	802	1838	113815	121781	114784	113457
		1839 1840	123543 132305	128806 129059	120115 119822	120110 121117
		1841	133720	129884	123868	124686
	S DESTRICTION OF THE PARTY OF T	1842 1843	135615 136837	134096 131279	123296 128161	124732 131048
	10 April 10	1844 1845	143578 143080	136941 136853	130078 132369	130166 131219
		1846	145108	149450	138718	139349
	0 100 mg	1847 1848	146453 139736	139072 149760	127173 140359	127267 133204
LOPES.		1849 1850	153772 144551	153693 155865	135223 146911	135471 146095
		1851	157286	159073	150594	148912

TABLE XI.—ENGLAND. DEATHS.—ANNUAL RATE of MORTALITY of Males and of Females.

	THE STREET	1 CO. 1	DEATHS.		Mortality of Males to	
200	YEARS.	To 100 Males living.	To 100 Females living.	Deaths of Males to 100 Deaths of Females.	the Mortality of Females assumed to be 100.	
	1838 1839 1840	2·335 2·275 2·372	2°133 2°090 2°203	105 104 103	109 109 108	1 - 11
integ in i	1841 1842 1843 1844 1845	2°238 2°241 2°202 2°242 2°170	2*083 2*098 2*047 2*083 2*012	103 102 103 103 103	107 107 108 108 108	: 3
	1846	2·395 2·546 2·391 2·581 2·143	2°221 2°380 2°224 2°445 2°013	103 103 103 101 101	108 107 108 106 106	33 33
	1851	2.276	2.124	103	107	economic contests
	Average of 14 years, \\ 1838-51 \}	2.312	2*154	103	108	

The Table may be read thus:—in the year 1838 to every 100 males living there were 2°335 deaths of males; to every 100 females living there were 2°133 deaths of females; and to every 100 females who died there were 105 deaths of males. The last column shows the relative mortality of males and females; and that out of equal numbers living the deaths of males was 109 to every 100 deaths of females in 1838.

Mortality of Persons in different Occupations.

xvii

the population are affected by fixed local influences. The professions and occupations of men open a new field of inquiry, on which we are now prepared to enter, not unconscious, however, of the peculiar difficulties that beset all inquiries into the mortality of limited, fluctuating, and sometimes ill-defined sections of the population.

Laudable attempts have been made by ingenious men to determine the effects of professions on health, by general observation, unaided by exact recorded facts. Ramazzini and Thackeray in this way deduced some useful practical results and rules for the improvement of the health of artizans. More recently the mean age at death has been relied on to show the healthiness or insalubrity of certain occupations. And this method, as well as that of the annual rate of mortality without distinction of age, is applicable in certain definite conditions where only approximations are required.

But the mean age at death evidently depends upon many circumstances besides health, and among others, upon the ages of the living; which vary in proportions in almost every profession, according as it is a profession that people enter early or later in life, and according as the numbers that enter it annually increase or decrease.

TABLE XII.—ENGLAND. DEATHS.—Annual Rate of Mortality per Cent. of Males and Females at different Ages, in the 14 Years 1838-51.

Years -	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	Average of the Rates of 14 Years 1838-51.
All Ages- }	2:335	2.275	2.372	2.238	2.241	2.202	2.242	2.170	2.395	2:546	2:391	2.581	2.143	2.276	2:315
0-	7.041	7.167	7.542	6.843	7.048	6.898	6.984	6.665	7.760	7.588	7.401	7.513	6.695	7.298	7.175
5-	•901	•904	1.083	•956	•901	*844	*897	*823	*825	THE PARTY OF THE P	CALL STATE OF THE PARTY OF THE	10 (25) LO (12/5)	*814		•925
10-	*519	•512	*542	•510	•501	*478	•473	•466	•507		TO SECULIAR SEC	OF THE PARTY OF	LOS IVANOS PROPERTY.		*514
15-	*851	*819	*832	*811	•783	•772	•763	•781	*859	ANY LUDIES FROM	1375 Harris 16 16		•717	CHECK THE	*822
25-	1.064	•986	•995	•978	•928	•924	•940	•926	1.025	1.100	1.026	STATE OF THE PARTY OF	NO THE RESERVE	1000 E 1000 E 1000 E 1000 E	•997
35-	1.342	1.255	1.266	1.217	1.197	1.218	1.225	1.202	1.272	1.436	1772 1873 1873		1.165		1.260
45-	1.949	1.798	1.796	1.785	1.733	1.722	1.750	1.715	1.800	2.065			1.716		1.839
55-	3.410	3.192	3.142	3.137	3.041	3.008	3.051	2.975	3.129	3.649		O HARLEST STATE	2.980		3.190
65-	6.916	6.421	6.678	6.482	6.595	6.578	6.736	6.491	6.758	7.696	6.793		ME THE RESERVE	6.396	6.721
75-							14.651	14.400	15.070	17:326	14.986	AL SECTION AND SECTION	14.019	CONTRACTOR SERVICE	14.696
	29.745							30.191	32.214	35.553		A PERSON DESTRUCTION	28.555		30.202
95 & up.	49.699	43.112	48.498	46.633	46.427	45.681	43.228	49.035	51.651	56.607	42.435		38.560		46.169

### DEATHS to 100 Females living.

All Ages-	2.133	2.090	2.203	2.083	2.098	2.047	2.083	2.012	2.221	2.380	2.224	2.445	2.013	2.124	2.154
0-	6.047	6.138	6.432	5.861	2.000	F-005	F-005								
				1/35/12/25	6.023	5.897	5.882	5.657	6.675	6.223	6.396	6.488	5.738	6.299	6.149
5-	*895	*935	1.113	*963	925	*848	*902	*800	*813	•951	•997	1.102	*810	*860	922
10-	•543	*535	•569	•520	•512	*485	•503	•476	•533	•577	*566	*653	•491	•527	*535
15-	*854	*848	*868	*842	*830	.784	*810	*815	*870	•919	*878	1.000	•777	*818	.851
25-	1.046	1.007	1.033	1.007	1.002	•976	1.006	•980	1.048	1.173	1.090	1.347	•988	1.005	1.051
35-	1.313	1.248	1.269	1.227	1.220	1.227	1.200	1.188	1.242	1.422	1.301	1.617	1.169	1.193	1.274
45-	1.660	1.549	1.567	1.542	1.526	1.484	1.525	1.467	1.559	1.789	1.589	1.998	1.473	1.519	1.589
55-	2.977	2.730	2.829	2.740	2.744	2.692	2.773	2.668	2.783	3.226	2.860	3.355	2.625	2.679	2.834
65-	5.919	5.554	5.899	5.841	6.013	5.877	6.052	5.856	6.156	6.964	6.072	6.596	5.717	5.854	6.026
75-	13.281	12.519	13.241	13.375	13.084	13.037	13.494	13.036	13.794	15.945	13.604	14.028	12.684	12.818	13:446
85-	26.463	25.242	28.394	28.255	28.438	27.655	28.434	27.569	30.350	32.104	27 . 623	28.028	25.922	26.357	27.917
95 & up.	41.099	39.915	46.199	45.907	42.832	46.679	44.616	42.036	52.200	53.230	1000 1200 1200		42.927		45.200

The Table may be read thus:—Of 100 Males living of the age of 35 and under 45, 1'342 died in 1838, 1'255 in 1839, 1'217 in 1841, and so on for other years; a correction for increase of Population having been made for each Age at each Year, and the deaths of persons whose ages were not returned have been distributed proportionally over each age. The figures showing the mortality of Males and Females at "All Ages" in this and the previous Table are correct, and differ slightly from those given in the 13th Annual Report, pp. xiii-xiv. The data upon which this Table is constructed appear in this or have appeared in the previous Reports, and in the Census Report. See Census Report 1851; and the Annual Reports of the Reg. Gen., particularly the 8th and 9th.

The mortality is at the rate of 20 in 1000 among men of the age of 20 and upwards in England; but this gross rate is compounded of all the varying rates, from the age of 20 to the age of 100. For while the annual rate of mortality among men of the age of 25 and under 35 is 9 in 1000, the rate among men of the age of 45-55 is 18 nearly, and the rate among men of the age of 65-75 is 64: so, as the age of the living in different professions may vary almost indefinitely, the gross rate of mortality affords only an imperfect indication of the influence of occupation on health and on the duration of life. The rate of mortality among farmers of the age of 20 and upwards, is 28 in 1000, among tailors 20 in 1000; yet it will be shortly shown that when the rates of mortality among men of corresponding ages are compared, the farmers are much the healthier of the two classes.

To obtain results upon which reliance can be placed for the purposes of sanitary inquiry and of life insurance, several extended series of observations are required, and have now been obtained in England. The Census Report exhibits the number of persons in each occupation at each decennial age in 1851, and the present Report shows the numbers in those professions dving at corresponding ages.

Upon examining the results of these two series of observations, it is evident that the unsettled nomenclature of the professions throws in the way of the inquiry another formidable difficulty, which can only be gradually removed. Thus it is impossible at present to determine the relative mortality of the classes that are respectively engaged in the silk, cotton, linen, and woollen manufactures, as great numbers of men are registered as weavers simply, without any further distinction; so all the

TABLE XIII.—DEATHS registered in each Quarter of the Years 1838 to 1851.

Years.		Quarters ending	, the last day of	
1 ears.	March.	June.	September.	December
1838	98152	90877	72877	80854
1839	89740	87969	76280	84995
1840	98896	90339	80822	89630
1841	99069	86134	75440	83204
1842	96314	86538	82339	84328
1843	94926	87234	76792	87493
1844	101024	85337	79708	90864
1845	104664	89149	74872	80681
1846	89484	90230	101664	108937
1847	119672	106718	93435	103479
1848	120032	9972 <b>7</b>	87638	92436
1849	105870	102153	135227	97589
1850	98430	92871	85849	91845
1851	105359	99458	91499	99080

TABLE XIV.—ENGLAND. DEATHS.—PROPORTIONAL Number of DEATHS in each QUARTER to 1000 Deaths in the Average Quarter of each Year.

	Number		Proportional	Number of	Deaths	
YEARS.	of Deaths in the Average Quarter.	In the Average Quarter (assumed to be 1000).	First Quarter ending March 31.	Second Quarter ending June 30.	Third Quarter ending Sept. 30.	Fourth Quarter ending Dec. 31.
1838 1839 1840	85690 84746 89922	1000 1000 1000	1145 1059 1100	1061 1038 1005	850 900 899	944 1003 997
1841 1842	85962 87380	1000	1152 1102	1002 990	878 942	968 965
1843 1844	86611 89233	1000	1096 1132	1007 956	887 893	1010
1845 1846	87342 97579	1000	1198 917	1021 925	857 1042	924
1847 1848	105826 99958	1000	1131 1201	1008	883 877	978 925 885
1849 1850	110210 92249	1000	961 1067	927 1007	1227 931	996
1851	98849	1000	1066	1006	926	1002

persons that are engaged in the textile manufactures are thrown together. *Miners* in iron, lead, copper, coal, and the manufactures of the metals, have for the same reason been thrown into one group. Again, as the large class of agricultural labourers has in the registers often been confounded, under the indefinite term "labourer," with labourers on roads, on railways, in quarries, labourers have been dealt with in the aggregate.

By selecting a few of the well-defined occupations in which large numbers of men are employed, and by grouping together in one line

TABLE XV.—ENGLAND. Males aged 20 and upwards in the under-mentioned Occupations at the Census (31st March 1851); Deaths in the same Occupations in the Year 1851; and MORTALITY per Cent.

		,			Carpen by a sankle e	To the	*4.4	(1)
OCCUPATIONS.	Living at the Census of 1851.	in the Year 1851	tality to 100 Living	7	OCCUPATIONS.	Living at the Census of 1851.	in the	tality to 100
Section in the contract of	Aged	20 Ye	ears and		Commercial States and a		20 Yea	rs and
ENGLAND.—Total of Males AGED 20 and UPWARDS	4,717,013	9469	2 2.009	9	Class VIII.—continued. (4) Ship-owner	1526	83	2.163
Class I.					Seaman and Seaman R.N., Pilot, and others connected	1020	1111	2 100
(1) Post Office, Inland Revenue, Customs, and other Govern-			MUSE.		with Sea Navigation (5) Engaged in Warehousing and	89432	2044	2.286
(2) Police Union Relieving Officer. Officer	33830 16334	558 199			Storage  (6) Messenger (not Govt), Porter, and others employed about Messages	27892	661	2.370
of Local Board, and other Local Officers	9705 3291	191 63			IX. (1) Farmer and Grazier – – Agricultural Labourer, Farm	225747	6426	2.847
(1) Army Officer, Army Half-pay Officer, Soldier (2) Navy Officer, Navy Half-pay Officer, and Marine (a)	36733 10022	1000	2.722	Ш	Servant, Shevberd, General Labourer, Road Labourer, Railway Labourer, Stone, Slate, and Limestone Quarrier, Brickmaker, Marble Mason, and other Workers in Stone	Autorianis	13/10/14/44	
Greenwich and Chelsea Pensioner	26323	1102	4.186	П		1192909	25801	2.163
III. (1) Clergyman, Protestant Minister (2) Barrister	23725	323	1.361	Ш	nected with Arboriculture – (3) Gardener, Nurseryman, and	6989	80	1.145
Solicitor	2816 11350 1771	29 224 53	1.030 1.974 2.993	Ш	others connected with Hor- ticulture	69054	1198	1.735
Surgeon (4) Parish Clerk and other Church	13470	261	1.938	II	(1) Horse-dealer Horsekeeper, Jockey, Groom -	1227 33851	33 409	2.689 1.208
Officers  (5) Law Clerk  (6) Druggist and Druggist's As-	3987 9714	118 195	2.960	II	Inn Servant, Ostler Farrier, Veterinary Surgeon -	16929 5581	397 148	2·345 2·652
iv.	10846	160	1.475	$\parallel$	Cattle, Sheep-dealer, Salesman Drover – – – – – – – – – – – – – – – – – – –	4428 2623	72 49 111	1.626 1.868 1.542
(2) Painter (Artist) Architect	4171 2252 7026	65 31 156	1.558 1.377 2.220		XI.  (1) Publisher, Bookseller, and Sta-	7198 13980	230	1.645
VI. (2) Domestic Servant (3) Hairdresser	51889 9261	874 874 217	1.684 2.343		tioner   Bookbinder   Printer	8421 4292 16034	116 88 298	1:378 2:050 1:859
Hatter	11297 96633	330 1931	2·921 1·998	П	(2) Musical Instrument Makers and Dealers	3977 3936	77 72	1.936 1.829
Hosier, Haherdasher – – Hose, Stocking—Manufacture –	2615 25683	45 577	1.721 2.247		(5) Engaged about carving Figures (6) Connected with Shows, Games,	2268	26	1.146
Glover (Material not stated) - Shoemaker	3505 173932	70 3236	1.860	П	(7) Pattern and other Designers	2152	26	1.208
(1) Merchant   Banker	7482 1482	152 33	2.032 2.227	Ш	and Draughtsmen (9) Watchmaker (10) Gunsmith and others engaged	1764 14020	48 243	2·721 1·733
Stock, Share Bill, Broker Agent, Factor	3559 3617	64 84	1.798 2.322	H	in manufacture of Arms – (11) Engine and Machine Maker.	5784	141	2.438
Salesman	1302 3341 33324	63	1.613 1.886 2.353		Tool maker, and others dealing in Tools and Machines	39636	425	1.072
Commercial Traveller Pawnbroker	8093 2432	784 146 45	1.804 1.850		(12) Coachmaker and others con- nected with Corriage-making (13) Saddler, Whip-maker, and other	13077	228	1.744
VIII.	13983	363	2.296		(14) Shipwright, Ship-builder Boat	13589	266	1.957
(1) Railway Engine Driver, Stoker, and others in Railway Ser-	22797	260	1.141		Barge-builder, and others engaged in fitting Ships (15) Surveyor	21716	425	1.957
(2) Toll Collector Carrier, Carman, Carter, Dray-	3307	58	1.754		Builder	2492 10680 133675	36 218 2604	1.445 2.041 1.948
man	38200	774	2.026	1	Bricklayer, Mason, Pavior - 1 Slater 1	123950 3800	1980	1.597 1.500
Livery-stable Keeper, Coach- man, Postboy, and others en-	1 #		11.72	-	Paperhanger, Painter, Plumber, Glazier – – – –	13122	278 919	2.119
gaged in Road Conveyance - (3) Canal Service, Boat and Barge-	27301	557	2.040		(16) Wheelwright and other Implement Maker	24365	453	1.859
man, and others connected with Inland Navigation -	32128	598	1.861	1	Millwright	6446 8162	133 205	2.063 2.212

(a) The Seamen of the Royal Navy are included with Merchant Seamen in Class VIII, Sub-class 4.

classes easily confounded in the returns, certain striking and interesting results have been obtained, which are embodied in the Tables XVI., XVII. In some instances these results confirm preconceived opinions; in others they bring to light important facts of which we had before no idea.

Farmers.—Of the twelve classes in the Tables, the farmers are the oldest and the longest livers; out of 225747 there are 31720 of the age 25 and under 35; 48378 of the age 35-45; and 53608 of the age 45-55. Their numbers then decline, and there are 45585 of the age 55-65;

TABLE XV. (continued)—ENGLAND. MALES aged 20 and upwards in the under-mentioned Occupations at the Census (31st March 1851); DEATHS in the same Occupations in the Year 1851; and MORTALITY per Cent.

OCCUPATIONS.	Living at the Census of 1851.	DIED in the Year 1851		OCCUPATIONS.	Living at the Census of 1851.	DIED in the Year 1851.	Mor- tality to 100 Living
Tolker olden der houses		20 Year pwards		o min le rous ka aber onde ker voor ook maaw deel	Aged 20 Years an upwards.		
lass II.				Class XIII.—continued.		rde d	
(1) Cowkeeper, Milkseller	9300	219	2.355	(12) Flax, Linen manufacture,			
Cheesemonger Butcher	2932 49403	37 1054	1.262 2.133	Draper, Lace manufacture, Cotton manufacture, Packer			
Poulterer	1795	32	1.783	and Presser (cotton), Fustian			
Fishmonger	6315	104	1.647	manufacture, Calico, Cotton Printer, Calico, Cotton Dyer,			AREAS.
dealing in Animal Food	7872	88	1.118	Other Workers and Dealers in	75500	2421	1.97
(2) Soap-boiler Tallow Chandler	1055 3954	12 74	1:137 1:872	Flax and Cotton (13) Paper manufacture, Paper	175598	2421	1:37
Comb-maker	1458	40	2.743	Stainer, other Paper Workers	7000	754	1.94
(3) Fellmonger, Skinner, Currier, Tanner, and other Workers				and Dealers	7923	154	1 94
in Leather	21384	395	1.847	XIV.			
(4) & (5) (Feathers) and Hair manufacture	1088	26	2.390	(1) Miners, &c., Coal, Iron, Copper, Tin, and Lead Miners;	ng rightura		
Brush and Broom Maker -	6053	97	1.603	Iron, Copper, and Lead manu-			
(6) Wool-stapler, Woollen-cloth manufacture, Fuller, Worsted				facture; Dealers and Workers in Copper, Tin, and Lead	238782	3609	1.5
manufacture, Stuff manufac-				Coal-merchant, Dealer	9741	149	1.58
ture, Clothier, Woollen Dra- per, Carpet and Rug manu-		1127		Coal-heaver, Coal-labourer - Chimney Sweeper	10628 4146	160 95	1:50 2:29
facture, and other Workers	1 4 4 4 1	18.11.15		(2) Stone Quarriers, Railway La-	ar m	-	\$36,F3
and Dealers in Wool (7) Silk manufacture, Silkmercer,	114350	1565	1.369	bourers, &c. (See IX.; 1.) (3) Earthenware manufacture,			
Ribbon manufacture, Fancy	1 1 500			Earthenware and Glass	-	25 43	2603080
Goods manufacture, and other	40032	396	•989	Dealer, Tobacco pipe Makers, and others	20518	381	1.8
Workers and Dealers in Silk - Aggregate of the Wool, Cotton, and	40032	350		(4) Glass manufacture and other	41.0500.0237		
Silk Sub-classes	329980	5865	1.777	Workers in Glass (6) Water Providers	8083 1503	168	1.8
m.				(7) & (8) Workers, Dealers in Pre-	1000		
(1) Greengrocer	7674	144	1.876	cious Stones, Goldsmith, and	8496	170	2.0
Corn merchant and Flour Dealer	6783	100 456	1:474	Silversmith	1111	17	1.5
Baker, Confectioner	42717	763	1.786	Carver, Gilder	3334	62	1.8
(2) Maltster	9812	205 346	2.089	(9) Copper-miner and Lead Manufacture (See XIV.; 1.)	Section 2	ra Seco	
Inn and Hotel Keeper, Li-	1			Copper-smith	1211	23	1.8
censed Victualler, and Beershop Keeper	55315	1706	3.084	(10) Tin miner (See XIV.; 1.) Tinman	5897	122	2.0
Wine and Spirit Merchant -	6049	120	1.984	(11) Zinc manufacture and Workers	0.000	7	1.8
Sugar-refiner Grocer	1897 47473	721	1.318	and Dealers in Zinc (12) Lead miner and Lead manu-	378	1	18
Tobacconist	2616	33	1.261	facture (See XIV.: 1.)			
(3) Oil and Colourman	1627 2478	27 34	1.659	(13) Brassfounder, Locksmith, Bell- hanger, Brazier, White Metal	20,000	100	
French Polisher (4) Timber Merchant	3512	57	1.623	manufacture, Button-maker,	100		1 77
(5) Cork cutter	1395	30 493	2·151 1·772	Wire-maker, Wire-worker, Weaver, other Workers and	43,513,000	SECTION.	1000
(6) Sawyer	27824 1377	22	1.598	Dealers in mixed Metals -	26157	417	1.2
(7) Cabinet-maker, Upholsterer,				(14) Iron-miner, Iron manufacture. (See XIV.; 1.)			100
Turner, Chair-maker, Box maker, and others dealing in				Whitesmith	7615	109	1.4
Wood Furniture	40203	689	1.714	Blacksmith Nail manufacture	75998 12713	1409 264	1.8
(8) Cooper and other Makers of Wood Utensils	14867	355	2.388	Boiler-maker	4857	55	1.1
(9) Frame-maker, Block and Print	1			Ironmonger	6093 4371	103	1.6
Cutter, and other Wood Tool Makers	5579	67	1.201	File-maker – – – – – Cutler – – – –	6242	161	2:5
(10) Basket maker	6078	96	1.579	Needle manufacture	1884	39	2.0
Thatcher	5065	105	2.073	Other Workers and Dealers in Iron and Steel	17557	407	2.8
(11) Rope-maker, Sailcloth manufacture, and other Workers	Contract of	la die		XV.			Today bil
and Dealers in Hemp	14296	259	1.812	(1) Labourer (General). (See IX.; 1.)	)	1	1 5 1

Note.—Several Occupations have been excluded from this Table, as from limited numbers or errors of nomenclature it is believed that the mortality is not truly expressed; thus,—Authors, Editors, Writers, and others engaged in Literature, mortality '819 ler cent.; Scientific Persons, 1'259 per cent.; Ship-agents '794; Actors and others connected with Theatres, 3'533; Civil Engineers, '950; Medallists and Die Sinkers, 3'152; Gaswork service, '940; Salt-makers and Dealers, '509; Anchorsmiths. '504; Grinders (branch undefined), 4'128; Mechanics, Manufacturers, Shopmen (branch undefined), and others of indefinite Occupations, 4'333 per cent.

28660 of the age 65-75; 11363 of the age 75-85; and 1711 of the age 85 and upwards. Their numbers, depending on the number of farms, have been probably stationary for some years in England, and it is evident that men enter the class at all the ages up to 45-55, when the number living is greater than the number at any other period of life. Few become farmers after that age. The total deaths in the year were 6426; and the deaths to 1000 living at each of the decennial ages commencing at 35-45 were nearly 9, 12, 25, 55, 148, 324.

The deaths to 1000 labourers at each of the corresponding ages were 13, 17, 29, 68, 174, and 418. The advantages in respect to health of the farmer over the labourer are considerable at every age after the age of 35; but, singularly enough, the mortality of the young farmers of the age 25-35 is rather higher (10.15) than the mortality (9.79) of the young labourers of the same age.

The labourers of all classes that are brought into the calculation were 1,192,909, of whom 25801 died in the year. They constitute nearly one fourth part of the male population of England; and their mortality is at nearly the same rate as that of the whole population, except in the very advanced ages, when the Poor Law apparently affords inadequate relief to the worn-out workman.

TABLE XVI.—Number of Males aged 20 Years and upwards in the under-mentioned Occupations living at the Census of 1851, and the Number in the same Occupations who died in the Year 1851, at different periods of age.

	MALES—AGES.									
OCCUPATION.	20 Years of Age 'and upwards.	20-	25-	35-	45-	55-	65-	75-	85 and up- wards.	
Tailors { Living in 1851 - Died in 1851 -	96,633	15,529	30,187	23,316	13,321	8,234	4,407	1,449	190	
	1,931	167	351	330	223	232	337	225	66	
Shoemakers { Living in 1851 - Died in 1851 -	173,932	27,963	49,436	39,464	27,943	16,799	9,070	2,864	393	
	3,236	269	451	418	420	482	590	471	135	
Farmers and Graziers { Living in 1851 - Died in 1851 -	225,747	4,722	31,720	48,378	53,608	45,585	28,660	11,363	1,711	
	6,426	87	322	418	643	1,135	1,585	1,682	554	
Carpenters and Joiners - { Living in 1851 - Died in 1851 -	133,675	21,351	37,779	29,565	19,851	14,331	7,653	2,807	338	
	2,604	169	357	305	331	425	504	401	112	
Butchers { Living in 1851 Died in 1851 -	49,403	9,026	14,421	10,771	7,921	4,459	2,001	712	92	
	1,054	68	163	178	183	185	133	110	34	
Persons engaged in the Wool, Living in 1851 -	329,980	65,435	97,188	70,746	48,273	28,551	14,775	4,524	488	
Cotton, and Silk Manufactures Died in 1851 -	5,865	591	775	754	742	942	1,102	783	176	
Baker's and Confectioners { Living in 1851 - Died in 1851 -	42,717	8,207	12,773	9,285	6,553	3,696	1,692	458	53	
	763	69	97	137	139	122	113	69	17	
Inn and Hotel Keepers, Licensed Victuallers, and Beer-shop Died in 1851 – Keepers – – – Died in 1851 –	55,315	1,582	11,066	16,133	13,658	8,161	3,693	929	98	
	1,706	11	153	330	387	318	301	168	38	
Grocers { Living in 1851 - Died in 1851 -	47,473 721	8,494 88	13,634 104	10,327	7,411 117	4,636 105	2,333 116	586 .73	10	
Miners,&c.,viz. Coal, Iron, Copper, Tin, and Lead Miners; Persons engaged in Iron, Copper, and Lead manufacture, Workers and Dealers in Copper, Tin, and Lead	238,782	56,601	80,184	49,781	30,027	14,958	5,664	1,416	151	
	3,609	498	681	565	605	516	456	253	35	
Labourers, &c. viz., Agricultural Labourers, Farm Servants, and Shepherds; General Labour- ers; Railway Labourers, and Navvies; Stone, Slate, and Limestone Quarriers and other Workers in Stone and Clay; Bricklayers and Marble Ma- sons	1,192,909	208,383	320,025	243,701	190,074	128,889	72,507	26,009	3,321	
	25,801	1,729	3,133	, 3,052	3,289	3,763	4,923	4,524	1,388	
Blacksmiths { Living in 1851 - Died in 1851 -	75,998	14,338	23,042	16,212	10,904	6,713	3,480	1,143	166	
	1,409	86	187	201	180	250	259	191	55	
All Males aged 20 and upwards { Living in 1851 - in England { Died in 1851 -	4,720,904	784,823	1,323,621	1,017,018	734,314	482,788	268,052	97,008	13,280	
	94,366	7,029	12,531	12,547	13,104	14,609	17,116	13,612	3,818	

Note.—The numbers "Living in 1851" are those enumerated at the Census (March 31st 1851); the numbers who "Died in 1851" comprise all in the several Occupations whose Deaths were registered during the year 1851. In the last line but one the numbers aged 20 and upwards living in 1851 are estimated for the middle of the year 1851; and in calculating the rate of mortality a correction has been made for 326 deaths of Males whose ages were not stated by distributing a proportional part over the different ages.

The four classes which on the whole experience the heaviest rates of mortality are miners, bakers, butchers, and inn and beershop keepers. Thus at the age 45-55 out of every 1000 farmers 12 died; of 1000 shoemakers 15 died; of 1000 weavers and others employed in the manufacture of cotton, silk, and wool 15 died; out of an equal number of grocers 16 died; of blacksmiths 17 died; of carpenters 17 died; of tailors 17 died; of labourers 17 died; of miners 20 died; of bakers 21 died; of butchers 23 died; of inn and beershop keepers 28 died;—the mortality at that age among the whole population of England being at the rate of 18 in 1000.

At every period of life the mortality of the inn and beershop keepers is in excess of the mortality of all the other classes except the butchers at the age of 55-65 who died at the rate of 41 in 1000; while the rate among the inn and beershop keepers of the same age was 39 in 1000;

the rate among the whole population being 30.

Among the important class of men, 55315 in number, variously designated hotel keepers, inn keepers, licensed victuallers, and beershop keepers, distributed all over the kingdom, but concentrated especially in towns, the causes of this unusually heavy rate of mortality deserve careful and extensive investigation. Many highly respectable men of the class lead regular lives, and are of steady habits; but others, exposed by their business to unusual temptations, live intemperately, and enjoy less quiet at night than the rest of the community. They are exposed also to zymotic diseases, by intercourse with large numbers of people.

But in a matter of so much importance, these remarks must only be viewed as indications of the direction that the inquiry should pursue in

the hands of competent persons.

TABLE XVII.—MORTALITY per Cent. of Males aged 20 Years and upwards in the under-mentioned Occupations in the Year 1851, at different Periods of Age.

		MALES—AGES.										
OCCUPATION.	20 Years of Age and upwards.	25-	35-	45-	55-	65-	75-	85 and up- wards.				
all constitutes with a smill of the		Mortality per Cent.										
Tailors	- 1.998	1.163	1.415	1.674	2.818	7.647	15.528	34.737				
Shoemakers	- 1.860	•912	1.059	1.503	2.869	6.505	16.446	34.351				
Farmers and Graziers	- 2.847	1.015	*864	1.199	2.490	5.530	14.802	32.379				
Carpenters and Joiners	- 1.948	•945	1.032	1.667	2.966	6.586	14.286	33.136				
Butchers	- 2.133	1.130	1.653	2:310	4.149	6.647	15.449	36.957				
Persons engaged in the Wool, Cotton, an Silk Manufactures	d   1.777	•797	1.066	1.537	3.299	7.459	17:308	36.066				
Bakers and Confectioners	- 1.786	•759	1.475	2.121	3.301	6.678	15.066	32.075				
Inn and Hotel Keepers, Licensed Victua lers, and Beer-shop Keepers	3.084	1.383	2.045	2.834	3.897	8.151	18.084	40.860				
Grocers	- 1.519	•763	1.046	1.579	2.265	4.972	12.457	19.231				
Miners, &c., viz. Coal, Iron, Copper, Tin, an Lead Miners; Persons engaged in Iro Copper, and Lead Manufactures; Worke and Dealers in Copper, Tin, and Lead	n,	*849	1.135	2.012	3.450	8.051	17.867	23.179				
Labourers, &c., viz. Agricultural Labourer Farm Servants, and Shepherds; Gener Labourers, Railway Labourers, and Na vies; Stone, Slate, and Limestone Qua riers, and other Workers in Stone au Clay; Bricklayers and Marble Masons	al v- r- nd	*979	1.252	1.730	2.920	6.790	17:394	41.795				
Blacksmith	- 1.854	*812	1.240	1.651	3.724	7.443	16.710	33.133				
17 Constitution			-		-							
All Males aged 20 Years and upwar in England	ds 2.009	•948	1.236	1.787	3.031	6.396	14.055	28.797				

Butchers.—This useful body of men amounted to 49403; and they experienced a much heavier rate of mortality than any other class except that preceding—at the ages under 65. Thus at the age 35-45 the rate of mortality per 1000 among farmers was 9, carpenters and joiners 10, shoemakers 11, blacksmiths 12, tailors 14, bakers 15, butchers 17. At the next decennial age (45-55) the mortality of butchers was 23; at 55-65 it was 41, or higher than the mortality that any other class suffered. The mortality of the old butchers of the age of 65 and upwards is near the

While much has been written about the diseases of shoemakers, weavers, tailors, miners, and bakers, the extraordinary mortality of butchers appears to have escaped observation. Calculation alone has taught us that the red, injected face of the butcher is an indication of a frail habit

of body.

average.

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Here is an important problem for solution. On what does the great mortality of the butcher depend? On his diet, into which too much animal food and too little fruit and vegetables enter?—on his drinking to excess?— on his exposure to heat and cold?—or, which is probably the most powerful cause, on the elements of decaying matter by which he is surrounded in his slaughter-house and its vicinity?

\*\*Bahers and confectioners.—The habits of bakers in town and country differ considerably; but the mortality among the 42717 was at the ages from 35 to 65 much above the average. The young bakers of the

age (25-35) experienced a low rate of mortality (7:59 in 1000).

Miners die in undue proportion, particularly at the advanced ages, when their strength begins to decline. In this particular they resemble labourers.

Tailors die in considerable numbers at the younger ages (25 to 45); but their mortality after the latter age, though higher than that of the former, is below the average of the people in general.

Carpenters, grocers, weavers, and shoemakers in early manhood, 25-45, do not experience a high rate of mortality; and subsequently the range of

the rate below or above the average of all classes is not considerable. Blacksmiths, 75998 in number, are distributed all over the kingdom in shops, where they work under peculiar conditions. Their mortality differs little from that of labourers, but it is excessive after the age of 55, and from the age of 55 to 75 it exceeds the mortality of labourers.

In the annexed Table (XVIII.) the several classes are arranged in the order of the mortality at the age (45-55). The facts deserve to be

carefully studied.

Every occupation has its peculiar dangers, which in their results sometimes counterbalance each other. Thus, the tailor is not exposed to the explosions which are fatal to the miner; and the labourer has exercise which is denied to the tailor. It is hence probable that the diseases of classes that experience the same rate of mortality differ; so, necessarily, do the measures by which those diseases may be obviated.

TABLE XVIII. MORTALITY PER CENT.

40/2	Top of	2 1		AGE	s.				
25-	35-	OCCUPATION.			45-	55-	65-	75-	
1.015	*864	Farmer -	_			1.199	2.490	5*530	14.802
.912	1.059	Shoemaker	-	-	-	1.503	2.869	6.505	16.446
*797	1.056	Weaver -	-	-	-	1.537	3.299	7.459	17.308
•763	1.046	Grocer -	-	-	-	1.579	2.265	4.972	12.457
*812	1.240	Blacksmith	-	-	-	1.651	3.724	7.443	16.710
•945	1.032	Carpenter	-	-	- 1	1.667	2.966	6.586	14.286
1.163	1.415	Tailor -	-	-	-	1.674	2.818	7.647	15.528
•979	1.252	Labourer	-		-	1.730	2.920	6.790	17.394
*849	1.135	Miner -	-	-	-	2.012	3.450	8.051	17.867
•759	1.475	Baker -	- 1	-	-	2.121	3.301	6.678	15.066
1.130	1 653	Butcher -	-	-	-	2.310	4.149	6.647	15.449
1.383	2.045	Innkeeper	-	-	-	2.834	3.897	8.151	18.084
•948	1.236	All Englar	nd	_	-	1.787	3.031	6*396	14.055

Insurance offices and Friendly societies will probably find the facts in these Tables of use to them in their transactions. For it is evident that the lives of farmers, for example, may be safely insured at much lower rates than the lives of licensed victuallers. Life Tables may be constructed from Table XVII., showing the probabilities of life or the mean life-time of several classes on a wider basis of facts than those which were employed by the eminent actuary, Mr. Milne, in constructing the Carlisle Table. But before the Tables are constructed the inquiry must be extended over other years; and must embrace the diseases, and several other circumstances on which it is desirable to obtain satisfactory information before constructing new Tables on which large pecuniary investments may be made to depend.

The result of the inquiries which the facts that have been already analyzed suggest, will, I trust, lead to great reductions in the rate of

mortality from which all the unhealthy professions now suffer.

The Causes of Death are briefly discussed by Dr. Farr in a letter addressed to me, which will be found in the Appendix.

I have the honour to be,

Sir,

Your faithful Servant,

GEORGE GRAHAM,

Registrar-General.