and death-rate affecting the permanent inhabitants of these two groups respectively, stand as follows:—

.;e		Statute Acres.	Population in 1861.	Persons to the Acre.		100 Poplatn.
var	St. George . St. Saviour .	282	55,510	196.84	$65 \cdot 64$	2.250
thr	St. Saviour.) 419	55,226	131.80	70.81	2.431
Son	St. Olave)	,			

In a report published a few years ago (which I am unable at present to find, nor do I, to my regret, remember the author's name) on the relative healthfulness of occupations in London, it was stated that the Thames watermen enjoyed a very favourable measure of health and duration of life. It is not probable, therefore, that dampness, supposed to be charged with noxious effluvia, emitted from a stream which is perpetually renewed by rapid movement, can be a cause of insalubrity in these and similarly situated districts. It is much more likely that, in such instances at least as the preceding, the products of putrefactive fermentation in the large and terminal drains are doubtless the more mischievous agencies.

RATE OF MORTALITY OF MANUFACTURING AND NON-MANUFACTURING TOWNS COMPARED.

In regard to rates of mortality affecting other large manufacturing towns in Lancashire, Cheshire, and the West Riding of Yorkshire, the results will be found to differ but slightly from those given for Manchester, although none of them will bear comparison with it in respect of density of population. The following list may serve to illustrate, approximately, the state of salubrity, as denoted by their respective death-rates, of 22 of the chief of these, ranged in the order of their occurrence in the Registrar-General's tables.

In compiling for these several items, it seemed probable that an additional means towards estimating the relative healthfulness of manufacturing and agricultural districts, as influenced by employment, might be afforded by placing, in juxta-position with the results for each town, those also of the entire Unions, of which the respective towns form the centre. For, the suburban populations of growing manufacturing towns are, in most instances, largely engaged in the same branches of pursuits as the more central masses which they surround; while the populace situated immediately beyond the precincts of county towns (with three or four exceptions*) are as largely so in agricultural and the collateral industries.

^{*} Norwich and Newcastle for instance, and in a less degree, Nottingham and Derby.

Table exhibiting the population, acreage-density, and average death-rate for the ten years ended 1860, of twenty-two manufacturing towns and of their respective Unions—including the fatalities in Workhouses, Hospitals, and Asylums in each instance:—

1. Stockport		Towns.	Area in Statute Acres.	Population in 1861.	Persons to the Acre.	Deaths to 100 Births	Deaths to 100 Poplate.
2. Macclesfield Town 2,410 Union 81,581 27,475 11:40 76:86 2:963 Union 81,581 61,543 75 73:37 2:518 3. Wigan Town 2,161 37,558 17:42 69:53 2.852 Union 47,539 94,561 2:00 63:55 2:439 4. Warrington Town 2,507 24,050 9:49 59:89 2:496 Union 29,981 43,875 1:47 58:48 2:183 5. Leigh Town 3,331 9,449 2:84 64:15 2:486 Union 23,610 37,700 1:59 65:90 2:348 6. Bolton Town 820 43,431 53:00 71:16 2:917 7. Bury Town 2,370 31,101 13:12 65:06 2:182 Union 32,990 101,135 3:06 64:05 2:173 8. Manchester Town 4,770 413,037 86:60 76:50 2:785 Union 29,007 518,902 17:88 72:71 2:593 9. Ashton-under Lyne Town 9,300 41,229 4:43 81:12 2:833 1:90 Union 38,657 134,753 3:49 72:57 2:512 10. Oldham Town 4,617 72,333 15:66 68:12 2:258 11,276 6:59 65:88 2:358 11. Rochdale Town 9,300 91,754 2:27 66:60 2:121 2:258 11,276 6:59 65:88 2:358 11. Rochdale 11. Rochdale Town 4,617 72,333 15:66 68:12 2:258 2:194 11,276 6:59 65:88 2:358 11. Rochdale Town 4,780 10,320 2:16 62:74 2:124 2:124 11. Rochdale 10,320 2:16 62:74 2:124 11. Rochdale Town 4,780 10,320 2:16 60:74 2:124 11. Rochdale Town 4,780 10,320 2:16 60:74 2:124 11. Rochdale Town 4,780 10,320 2:00 66:84 2:164 11. Rochdale Town 4,780 10,320	_	C. J.		41,084	5.85	76.57	2.685
2. Macclesfield Town 2,410 Union 81,581 61,543 .75 73.37 2.518 3. Wigan Town 2,161 Union 47,539 94,561 2.00 63.55 2.439 4. Warrington Town 2,507 24,050 9.49 59.89 2.496 4. Warrington Town 2,507 24,050 9.49 59.89 2.496 5. Leigh Town 3,331 9,449 2.84 64.15 2.486 6. Leigh Town 820 43,431 53.00 71.16 2.917 6. Bolton Town 820 43,431 53.00 71.16 2.917 7. Bury Town 2,370 31,101 13.12 65.06 2.182 8. Manchester Town 4,770 413,037 86.60 76.50 2.785 9. Ashton-under Lyne Town 9,300 41,229 4.43 81.12 2.833 10. Oldham Town 4,617 72,333 15.66 68.12 2.258 11. Rochdale Town 4,780 10,320 2.16 62.74 2.124 12. Haslingden Town 4,780 10,320 2.16 62.74 2.124 12. Haslingden Town 2,6681 69,781 2.61 61.20 1.933 13. Burnley Town 21,448 42,702 2.00 66.84 2.164 Union 54,126 75.595 1.40 64.31 2.180	1.	Stockport	Union 30,709	94,360	3.07	73.23	2.505
3. Wigan Town 2,161 37,558 17.42 69.53 2.852 4. Warrington Town 2,507 24,050 9.49 59.89 2.496 4. Warrington Town 2,507 24,050 9.49 59.89 2.496 4. Warrington Town 29,981 43,875 1.47 58.48 2.183 5. Leigh Town 3,331 9,449 2.84 64.15 2.486 6. Bolton Town 820 43,431 53.00 71.16 2.917 6. Bolton Town 820 43,431 53.00 71.16 2.917 7. Bury Town 2,370 31,101 13.12 65.06 2.182 7. Bury Town 2,370 31,101 13.12 65.06 2.182 8. Manchester Town 4,770 413,037 86.60 76.50 2.785 8. Manchester Town 9,300 41,229 4.43 81.12 2.833 9. Ashton-under- Town 9,300 41,229 4.43 81.12 2.8				27,475	11:40	76.86	2.963
3. Wigan Town 2,161 37,558 17.42 69.53 2.852 4. Warrington Town 2,507 24,050 9.49 59.89 2.496 4. Warrington Town 2,507 24,050 9.49 59.89 2.496 4. Warrington Town 29,981 43,875 1.47 58.48 2.183 5. Leigh Town 3,331 9,449 2.84 64.15 2.486 6. Bolton Town 820 43,431 53.00 71.16 2.917 6. Bolton Town 820 43,431 53.00 71.16 2.917 7. Bury Town 2,370 31,101 13.12 65.06 2.182 7. Bury Town 2,370 31,101 13.12 65.06 2.182 8. Manchester Town 4,770 413,037 86.60 76.50 2.785 8. Manchester Town 9,300 41,229 4.43 81.12 2.833 9. Ashton-under- Town 9,300 41,229 4.43 81.12 2.8	2.	Macclesfield	Union 81,581	61,543	.75	73.37	2.518
4. Warrington \begin{array}{c ccccccccccccccccccccccccccccccccccc				37,558	17.42	69.53	2.852
4. Warrington \begin{array}{c ccccccccccccccccccccccccccccccccccc	3.	Wigan	Union 47,539	94,561	2· 00	63.55	2.439
5. Leigh $ \begin{cases} $				24,050	9.49	59.89	2.496
5. Leigh $ \begin{cases} $	4.	Warrington	Union 29,981	43,875	1.47	58.48	2.183
6. Bolton			(Town 3,331	9,449	2.84	$64 \cdot 15$	
6. Bolton	5.	Leigh	Union 23,610	37,700	1.59	65.90	2.348
7. Bury				43,431	53.00	71.16	2.917
7. Bury	6.	Bolton	Union 43,896	130,269	2.96	64.29	2.527
8. Manchester		~	(Town 2,370	31,101	13.12	65.06	2.182
8. Manchester	7.	Bury	Union 32,990	101,135	3.06	64.05	2.173
9. Ashton-under Lyne $\begin{cases} Town \dots 9,300 & 41,229 & 4.43 & 81.12 & 2.833 \\ Union \dots 38,657 & 134,753 & 3.49 & 72.57 & 2.512 \end{cases}$ 10. Oldham $\dots \begin{cases} Town \dots 4,617 & 72,333 & 15.66 & 68.12 & 2.258 \\ Union \dots 16,872 & 111,276 & 6.59 & 65.88 & 2.358 \end{cases}$ 11. Rochdale $\dots \begin{cases} Town \dots ? & 38,164 & ? & 69.52 & 2.194 \\ Union \dots 40,340 & 91,754 & 2.27 & 66.60 & 2.121 \end{cases}$ 12. Haslingden $\dots \begin{cases} Town \dots 4,780 & 10,320 & 2.16 & 62.74 & 2.124 \\ Union \dots 26,681 & 69,781 & 2.61 & 61.20 & 1.933 \end{cases}$ 13. Burnley $\dots \begin{cases} Town \dots 21,448 & 42,702 & 2.00 & 66.84 & 2.164 \\ Union \dots 54,126 & 75,595 & 1.40 & 64.81 & 2.180 \end{cases}$			(Town 4,770	413,037	86.60	76.50	2.785
9. Ashton-under Lyne $\begin{cases} Town \dots 9,300 & 41,229 & 4.43 & 81.12 & 2.833 \\ Union \dots 38,657 & 134,753 & 3.49 & 72.57 & 2.512 \end{cases}$ 10. Oldham $\dots \begin{cases} Town \dots 4,617 & 72,333 & 15.66 & 68.12 & 2.258 \\ Union \dots 16,872 & 111,276 & 6.59 & 65.88 & 2.358 \end{cases}$ 11. Rochdale $\dots \begin{cases} Town \dots ? & 38,164 & ? & 69.52 & 2.194 \\ Union \dots 40,340 & 91,754 & 2.27 & 66.60 & 2.121 \end{cases}$ 12. Haslingden $\dots \begin{cases} Town \dots 4,780 & 10,320 & 2.16 & 62.74 & 2.124 \\ Union \dots 26,681 & 69,781 & 2.61 & 61.20 & 1.933 \end{cases}$ 13. Burnley $\dots \begin{cases} Town \dots 21,448 & 42,702 & 2.00 & 66.84 & 2.164 \\ Union \dots 54,126 & 75,595 & 1.40 & 64.81 & 2.180 \end{cases}$	8.	Manchester	Union 29,007	518,902	17.88	72.71	2.593
10. Oldham	Q	Ashton-under-	(Town 9,300	41,229	4.43	81.12	2.833
10. Oldham	•	Lyne	Union 38,657	134,753	3.49	72.57	2.212
11. Rochdale { Town ? 38,164 ? 69.52 2.194 }			(Town 4,617	72,333	15.66	68.12	2.258
11. Rochdale	10.	Oldham	Union 16,872	111,276	6.59	65.88	2.358
12. Haslingden $ \begin{cases} Town 4,780 & 10,320 & 2.16 & 62.74 & 2.124 \\ Union 26,681 & 69,781 & 2.61 & 61.20 & 1.933 \end{cases} $ 13. Burnley $ \begin{cases} Town 21,448 & 42,702 & 2.00 & 66.84 & 2.164 \\ Union 54,126 & 75,595 & 1.40 & 64.31 & 2.180 \end{cases} $			(Town ?	38,164	?	69.52	2.194
12. Haslingden $ \begin{cases} Town 4,780 & 10,320 & 2.16 & 62.74 & 2.124 \\ Union 26,681 & 69,781 & 2.61 & 61.20 & 1.933 \end{cases} $ 13. Burnley $ \begin{cases} Town 21,448 & 42,702 & 2.00 & 66.84 & 2.164 \\ Union 54,126 & 75,595 & 1.40 & 64.31 & 2.180 \end{cases} $	11.	Rochdale	Union 40,340	91,754	2.27	66.60	2.121
13. Burnley $ \begin{cases} Town 21,448 & 42,702 & 2.00 & 66.84 & 2.164 \\ Union 54,126 & 75,595 & 1.40 & 64.31 & 2.180 \end{cases} $				10,320	2.16	62.74	2.124
13. Burnley	12.		Union 26,681	69,781	2.61	61.20	1.933
13. Burnley	_	n 1	(Town 21,448	42,702	2.00		
14. Blackburn Town 3,610 63,126 17.48 69.80 2.512 Union 43,569 119,942 2.75 65.12 2.314	13.	Burnley	Union 54,126	75,595	1.40	64.31	2.180
14. Blackburn Union 43,569 119,942 2.75 65.12 2.314			(Town 3,610	63,126	17.48		
	14.	Blackburn	Union 43,569	119,942	2.75	65.12	2.314

Towns.	Area in Statute Acres.	Population in 1861.	Persons to the Acre.	Deaths to 100 Births.	Deaths to 100 Poplatn.
15. Chorley	{Town 10,859	18,027	1.70	61.94	2.251
<i>•••••••••••••••••••••••••••••••••••••</i>	(Union 52,213	41,678	·80	59.78	2.057
16 Prestou	Town 2,753	82,985	30.12	72.88	2.737
16. Prestcu	Union 68,035	110,526	1.62	71.80	2.54_{5}
1 & YT., J J C - 1 J	(Town 3,950	34,877	8.83	66.61	2.295
17. Huddersfield	Town 3,950 Union 66,560	131,336	1.97	58.95	2.133
** 110		36,437	13.63	74.41	2.461
18. Halifax	Union 51,758	128,673	2.48	64.87	2.285
T - T - 10 '		91,724	54.59	69.83	2.625
19. Bradford	Union 40,334	196,475	4.87	66.28	2.474
		117,556	56·00	73.28	2.581
20. Leeds	Tinion 49 091	227,514	5.41	67.24	2.383
		•			
21. Dewsbury	Town 1,392	18,148	13.04	64.17	2.490
		92,883	3.80	59.57	2.180
22. Sheffield	Town 3,120	68,981	$22 \cdot 11$	73.15	3.097
With Manual Control of the Control o	Union 10,590	128,951	12.14	67.02	2.566

The results presented in the next table, exhibiting corresponding conditions for forty county and cathedral towns, stand in contrast with those of the preceding table, as not containing (with a few exceptions) any large manufacturing industries, and are therefore not incommoded by dense masses of poor people, or the atmospheric impurities arising from manufacturing processes. Fourteen of them, marked with asterisks (*), have no extensive suburban unions, each, or most of them, being complete within its own little county privileges of antique date. In each of these groups, as in those of the preceding table, the births and deaths within Workhouses, Hospitals, and Asylums are included.

Towns.	Area in Statute Acres.	Population in 1861.	Persons to the Acre.	Deaths to 100 Births.	Deaths to 100 Poplatn.
		9,443	1.80	72.17	2.105
1. Guildford	Union 65,592	29,330	•45	$63 \cdot 14$	1.773
	* 3,121	16,643	5.36	88.35	2.113
	Town 4,042	23,016	5.70	77.23	2.276
3. Maidstone $\left\{\right.$	Union 38,082	38-670	1.02	72.05	2.189
		8,884	4.85	93.09	2.276
4. Chichester {	Union 21,054	14,775	·70	89.10	$2\cdot 161$
		14,930	3.86	96.11	2 286
5. Winchester {	Union 78,676	26,607	•34	77.32	1.994
		11,163	·61	67.51	1.899
6. Hertford {	Union 34,410	15,301	•44	63.11	1.836
	Town 12,983	8,672	·66	68:56	2.466
7. Abingdon {	Union 56,445	20,861	·37	70.76	2.357
	Town 14,983	5,987	· 4 0	78.14	2.458
8. Buckingham	Union 52,419	13,756	.26	$69 \cdot 49$	2.268
,	Town 11,358	37,710	3.32	68.22	2.271
9. Northampton	Union 20.903	41,160	1.97	67·00	2.243
10. Oxford		20,037	6.84	66.34	2.077
		9,368	•45	62.56	3.136
11. Huntingdon	Union 77,180	20,518	•27	57 ·67	1.986
		23,655	·64	64.07	3.037
12. Bedford	Union 97,320	38,072	•39	61.52	1.943
13. Cambridge		26,361	7.59	71.39	2.088
14. Chelmsford	Town 3,533	8,664	2.45	80.62	2.912
14. Chelmsiora	Union 83,906	32,765	•39	64.20	1.913
15. Ipswich	* 8,395 * 4,325	37,881	4.51	66.02	2.076
16. Norwich	* 4,325	74,440	17.21	75.57	3.388
17. Salisbury	w 100	9,039	18.83	74.21	2.353
		7,709	· 7 8	75.51	3.178
18. Dorchester	(Union 115,339	24,773	.21	66:34	2.113
19. Exeter	* 1,800	33,774	18•68	90.37	2.350
		6,524	•40	75.64	3.134
20. Bodmin	Union 88,981	19,691	.22	63.04	2.044

		•					
	Towns.	Area in Statute Acres.	Population in 1861. 11,944	Persons to the Acre.	Deaths to 100 Births. 65.92	Deaths to 100 Poplatn 3.350	
21.	Ely	Town 35,884 Union 79,894	21,910	· 2 8	60.38	2.179	
			10,283	2.62	73.67	2.855	
22.	Taunton	Town 3,926 Union 70,452	35,601	•56	66.84	1.949	
				22.37	70.20	3.461	
23.	Gloucester	Town 680 Union 32,222	15,214 $34,950$	1.09	66.31	2.132	
			14,065	5.82	87.62	2.625	
24.	Hereford	Town 2,417 Union 144,991	39,287	.27	76.20	1.988	
		* 18,032	25,784	1.43	87.53	2.387	
			14,739	•84	83.39	3.003	
26.	Stafford	Town 17,581 Union 52,022	24,474	·47	73.78	2.150	
		* 6,699	30,969	4.62	77.84	2.189	
			10,589	2.00	76.94	3.272	
28.	Warwick	Town 5,410 Union 66,639	44,047	,66°	72.20	2.014	
	Leicester		68,190	17.22	68:20	2.400	
		* 55,030	11,112	.22	61.54	1.909	
			24,907	·84	66.46	3.190	
31.	Lincoln	Town 29,614 Union. 158,920	47,063	·29	60.72	1.935	
	Nottingham	* 1,870	75,765	40.52	75.80	2.413	
	Derby	* 2,970	51,049	17.20	64.32	2.234	
<i>55</i> ,	Derby	· ·	19,762	•78	81.88	2.948	
24	Chester	Town 25,222 (Cathedral)	20,100				
U4,	Onosici	Union. 107,555	58,501	•54	73.57	2.115	
	_	•	18,347	1.38	81.00	2.697	
35.	Lancaster	Town 13,280 Union 138,746	35,297	•25	68,53	2.259	
0.0	T7 1	(Town 26,456	50,906	1.93	74.00	2.364	
36.	York	Town 26,456 Union 83,430	59,968	.72	70.71	2.288	
O.P.	Durah a ma	Town 27,720	18,714	·6 7	69.32	3.017	
57.	Durnam	Town 27,720 Union 98,368	70,274	.71	<u>55·68</u>	2.027	
		* 7,102	110,968	15.62	76.75	2.468	
		Town 11,782 Union 70,810	31,775	2.70	69.41	3.454	
39.	Carnsie		44,820	· 6 3	68.03	2.228	
٨n	Annlahv	Town 55,873 Union 177,910	5,529	•10	58.28	2.711	
Æ ∪.	whiten	Union. 177,910	15,411	$\cdot 09$	62.62	1.714	

In the first of these two tables, it will be seen that the death-rate per births and that per population bear relations very similar to each other throughout; that is to say, when the death-rate by one process is high, it is so also by the other, and vice versa. This, however, is not the case with those of the second table. The highest death-rate per population among the manufacturing towns is that for No. 22 (Sheffield), namely, 3.077; while, for the other group, there are eight county towns for which it stands higher, namely: Nos. 11, 18, 20, 21, 23, 28, 31, 39, and for some of them considerably so. On the other hand, there are none so low among the manufacturing as among the cathedral and county unions. The lowest among the former is No. 12 (Haslinden Union), which stands at 1.933, while of the latter, five unions have a lower estimate: Nos. 1, 6, 14, 30, 40.

Contrasting the average death-rate per population of the 22 towns comprised in the first table with that of the 40 towns in the second, the result is in favour of the former, as below:—

of the former, as below:—	
Average death-rappopulation	
22 Manufacturing towns 2.549	per cent.
40 County and cathedral towns 2.595	,,
The death-rates per births show a still wi	der dis-
parity, and this I deem to be the more	faithful
representation, namely:—	
Average death-rabirths.	ate per
22 Manufacturing towns 69.64	per cent.
40 County and cathedral towns 75.54	

But the sum of inhabitants of the 22 manufacturing towns is 1,320,716, and their density 18.88 persons to the acre; against 998,439 inhabitants, occupying the 40 county and cathedral towns, with a density of only 5.97 persons to the acre. These circumstances taken into consideration, the sanitary condition of the one and the other must be looked upon as still more decidedly in favour of the manufacturing towns.

The entire Unions of the two groups respectively present, as might be expected, results which have a tendency in the contrary direction, as represented per population at least—the death-rate for the second group being '134 per cent lower than that of the first. Thus:—

of the first. Thus:—
Average death-rate per population.
22 Manufacturing unions
40 County and cathedral unions 2.199
The death-rate per births, however, which, for
reasons already stated, is probably more correct, is
as follows:—
Average death-rate per births.
22 Manufacturing unions 65.76 per cent.
40 County and cathedral towns 67.48 ,,
Till and the of inhabitants comprised in the 22

The number of inhabitants comprised in the 22 manufacturing unions is 2,743,482, and the density 3.74 persons to the acre; while the aggregate population of the 40 county and cathedral unions, is little more than one-half, *i. e.*, 1,459,834, and the occupancy only .65 to the acre. So that it is questionable if the manufacturing unions even,

should be considered less favourably circumstanced by either process in comparison with those of the county and cathedral unions in a sanitary point of view, seeing that their density is nearly six times greater, and their reputed higher death-rate (per population) so fractionally small, while per births it is 1.72 per cent more favourable.

Respecting certain anomalies which appear among the results of the second table, such for instance as the want of correspondence noticeable between the death-rate per births and that per population, a few remarks, by way of explanation, may not be out of place, although the question has already been discussed in the preface. A notable example, however, may be adduced of the uncertainty and inconstancy of the death-rate estimate per population, by contrasting the results of two cathedral towns, both similarly circumstanced as regards the absence of cotton manufactories.

The population of Exeter amounted, in 1851, to 32,823, and in 1861 to 33,742, having experienced an *increase* in 10 years of 919.

The population of Ely in 1851 was 22,896, and ten years later 21,910, having experienced a decrease in 10 years of 986.

The number of births in Exeter amounted, in the decennium, to 8,776, and the number of deaths to 7,931, showing that only 845, equal to 9.628 per cent of those born had been reared; while in Ely the number of births was 7,907, and of deaths only

4,775, showing that 3,134, being 39.618 per cent of those born, had been brought to maturity. Yet the death-rate per population for Ely, notwithstanding this large disparity is, according to the Registrar-General's figures, only a trifle, *i.e.*, 171 per cent, lower than that for Exeter, a result altogether disproportionate and fallacious.

For, if the sum of natural increase, with the addition of those who must have left the town in the ten years (i. e., 3134+986), be added to the average population of Ely; and if the difference between the actual and natural increase (i. e. 74) be deducted from the average population of Exeter, elevating the first and reducing the second, each to its normal value, the disparity will be much wider in the contrary direction, and doubtless nearer the truth. Thus:—

	Death-rate per population.
Ely	1.629 per cent.
Exeter	
These proportions correspond very	nearly with
those afforded by the process per b	irths:
	eaths per births.
Ely	60.33 per cent.
Exeter	

NOTE ON DEATHS FROM TYPHUS.

The total number of deaths from Typhus registered in England during the ten years ended 1860, amounted to 167,762, being at the rate of 1 to 1,132