MORTALITY OF PHILADELPHIA FOR 1862.

REPORT

ON

METEOROLOGY AND EPIDEMICS.

READ EEFORE THE

COLLEGE OF PHYSICIANS OF PHILADELPHIA,

FEBRUARY 4, 1863.

BY

WILSON JEWELL, M.D.,

PRESIDENT OF THE MEDICAL SOCIETY OF PENNSYLVANIA; MEMBER OF THE BOARD OF HEALTH OF PHILADELPHIA, ETC. .

Extracted from The American Journal of the Medical Sciences for July, 1863.

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1863.



REPORT

ON

METEOROLOGY AND EPIDEMICS.

READ BEFORE

THE COLLEGE OF PHYSICIANS OF PHILADELPHIA.

In offering my Annual Report on the Meteorology and Epidemies of our city for 1862, or in other words, on its hygienic condition and relative mortality, I would acknowledge our indebtedness to a beneficent Providence, for the good degree of health with which we have been favoured throughout the year.

METEOROLOGICAL RECORD.—The accompanying abstract of meteorological observations is furnished as usual by Prof. J. A. Kirkpatrick, A. M. His observations are made for the Smithsonian Institution. He has also added a comparative table of atmospheric phenomena for the last eleven years, for Philadelphia.

The mean temperature of the year 1862 was 53.58°, and stands one and one-eighth of a degree below that of 1861, and seven-tenths above that for

eleven years.

The maximum temperature $(95\frac{1}{2}^{\circ})$ occurred on the 7th day of July. The minimum temperature (8°) was on the 21st of December. The range of the temperature for the year was $87\frac{1}{2}^{\circ}$.

The warmest day of the year was August 9th, when the mean of the thermometer stood 87.67°. The coldest day was December 20th, when

the mean for the day was 15.83°.

The maximum pressure of the atmosphere (30.555 inches) occurred on Nov. 16th; the minimum (29.216 inches) was on February 24th. The mean of the barometer for the year was 29.846 inches, which was a fraction lower than for 1861, and for the average of eleven years.

The force of vapour was less than for 1861, and for the average of

eleven years.

The relative humidity of the atmosphere was greater than for 1861, but

less than the average for eleven years.

The amount of rain that fell was nearly an inch more than in 1861, 45.656 inches, but three-quarters of an inch less than the average for eleven

It rained or snowed 134 days during the year. The month of June furnished the greatest amount of rain, 6.592 inches, when it rained 15 days. August the least, 1.455 inches, and for only 7 days.

By James A. Kirkpatrick, A. M., Prof. of Civil Engineering in the Central High School of Philadelphia. General Abstract of Meteorological Observations, made at Philadelphia, Pa., during the year 1862. (Barometer sixty feet above mean tide in the Delaware River.)

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16 36 5.55 10.89	5.55	_	10.89		28.36	36.00	31.64	32.00	30.322	29.216	1.106	.225	29.939	29.891	29.925	29.917
22 34 3.95 14.44	3.95		14.44		34.24	44.21	39.18	39.21	\$0.173	29.276	.897	.173	29.804	29.747	29.795	29.782
28 54 5.89 17.87	5.89	_	17.87		44.57	55.23	48.28	49.36	30.321	29.422	668.	.146	30.025	29.979	20.994	29.999
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47 42 5.34 17.60	5.34		17.60		64.57	74.72	66.75	68.68	30.146	29.375	.771	.123	29.738	29.706	29.728	29.724
53 424 4.23 17.50	4.23		17.50		71.13	82.06	73.60	75.60	30.156	29.487	699*	.107	29.743	29,724	29.731	29.733
54 41 3.89 16.56	3.89		16.56		71.47	82.93	75.13	76.51	30.099	29.557	.542	.122	29.829	29.796	29.818	29.814
48 39 4.30 16.22	4.30		16.22		63.53	76.03	67.55	\$0.69	30.086	29.398	.688	.128	29.881	29.845	29.876	29.867
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27 44 5.94 13.40	5.94	_	13.40	-	40.67	48.18	43.25	44.03	30.555	29.380	1.175	.159	29.877	29.823	29.870	29.857
8 66 6.46 12.74	6.46		12.74		32.24	39.76	34.71	35.57	30.495	29.319	1 176	.197	29.932	29.895	29.936	29.921
8 874 5.15 15.21	5.15		15.21		49.22	29.00	52.53	53.58	30.555	29.216	1.339	.160	29.863	29.822	29.852	29.846
10 54 5.42 11.89	5.42	٠	11.89		30.08	37.58	33.16	33.60	30.462	29.216	1.246	.215	29.973	29.926	29.955	29.951
22 63 5.20 17.37	5.20		17.37		45.55	56.51	49.59	50 55	30.321	29.276	1.045	.148	29.871	29.822	29.850	29.848
47 48 4.49 17.22	4.49		17.22		90.69	79.90	71.83	73.60	30.156	29.375	.781	.117	29.770	29.742	29.759	20.757
27 60 5.24 14.98	5.24		14.98	- 1	52.30	62.83	55.93	57.05	30.555	29.307	1.248	9†1.	\$18.62	29.831	29.868	29.858
54 106 5.57 15.19	5.57		15.19	_	49.69	59.96	53.14	54.26	30.70₹	28.584	1.820	.156	29.890	29.850	29.874	29.571

		Ave-	0	24.51	24.69	28.22	34.81	45.48	56.76	61.97	68.09	57.48	47.79	35,43	27.09	42.09	25.98	36.17	59.87	.46.90	
	MEANS.	.M .T 6	0	24.49	25.43	29.86	35.95	46.53	57.91	63.41	62.38	59.30	48.21	35.70	27.55	43.06	26.57	37.44	61.23	47.74	
OINT.	ME.	2 P. M.	0	25.23	25.57	28.05	34.34	£5.03	56.43	08.09	59.16	57.31	48.85	35,95	27.27	42.00	26.76	35.81	58.80	47.37	13.52
DEW-POINT.		.M .A 7	0	23.81	23.08	26.76	34.15	44.89	55.94	61.70	61.15	55.82	46.81	34 64	26.45	41.22	24.60	35.27	59.60	45.59	
		Min.	0	3.4	7.3	13.9	16.2	19.4	31.8	52.1	44.1	35.9	24.6	19.6	1.4	-1.4	3.4	13.9	31.8	19.6	-16.5
		Max.	0	42.7	42.0	52.1	61.9	63.9	71.4	73.1	77.4	73.8	68.4	9.19	51.2	77.4	52 1	63.9	77.4	73.8	79.7
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		Monthly resultant; No. of times in 1000.	Dire	N. 18	N. 450	N. 45	N. 450	N. 53	S. 79	S. 58	S. 90	N 4	N. 73	N. 79	N. 84	N. 58°	N. 47	N. 48	S. 72	N. 64	N. 74º
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bs. e of s	NB.	.M. 'Y 6	p. c. 1	7.4	61	99	49	41	51	20	38	45	49	†9	43	52	99	52	9#	53	45
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	tys t	No. of ds on which fell.	days.	16	15	11	11	6	15	10	7	9	11	15	90	134	35	31	32	32	127
RAIN AND MELTED SNOW.		·3momy	inch.	4.500	4.277	3.509	3.947	2.083	6.592	2.841	1.455	6.282	4.160	4.455	1,555	45.656	10.793	9.539	10.888	14.897	41.936
	-	A ve-	inch.	.140	.138	159	612.	.326	.477	999.	755.	167	.361	222	160	.318	.149	.235	.533	.358	.337
	(8,	.M.9 e	inch. i	.142	.142	171	228	.335	498	169.	989.	616.	.365	£55.	162	.330	152	245	.559	.369	345
APOUL	MEANS.	2 P. M.	nch. i	.145	.143	.159	612.	.324	07±.	119.	.524	490	.378	.228	.163	.316	154	.234	.513	.365	.341
FORCE OF VAPOUR.		.M.A.7	inch.	.134	.130	.149	211	.320	.463	199.	.562	.465	.340	.213	.154	308	.140	.227	.529	.339	.324
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		.M. H 6	p. c.	F.67	6.77	70.5	64.5	60.3	74.3	71.0	4.69	15.4	73.5	75.1	74.8	71.5	77.3	65.1	70.2	74.7	72.4
TIQII	MEANS.	2 P. M.	p. c. I	70.7	66.6 7	56.2 7	48.5	14.9	55.5	19.7	9.64	54.0	59 7	64.5	61.5	56.4	66.4	49.9	50.3	59.4	57.5
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RELATIVE HUMIDITY.		.uild	p. c. p	32 8	**************************************	25 7	18 6	18 6	33 7	36 7	30 7	32 7	33 7	37 7	31 7	18	23	18	30	32	13
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						٠	•	٠	•				•			1	1:		•	•	yr's
1862.		Months.		January .	February .	March	April	May	June	July	August	September .	October	November ,	December .	Annual means	Winter .	Spring .	Summer.	Autumn	For leven

A Comparison of some of the Meteorological Phenomena of the year 1862 with those of 1861, and of the last ELEVEN years, at Philadelphia, Pa.

Lat. 39° $57\frac{1}{2}$ ′ N. Long. 75° $10\frac{1}{2}$ ′ W. from Greenwich. Height of barometer fount, sixty feet above mean tide in the Delaware River.

	leet above mean the		
•	1862.	1861.	11 YEARS.
Meau of warmest day Coldest day—mean Mean daily oscillat'n "range.	15.83 Dec. 20 15.21 5.15 49.22 59.00 52.53	95° July 8 —1 Feb. 8 87.80 July 8 7.80 Jan. 13 16.85 5.57 50.15 60.74 53.24 54.71	1003° July 21, 1854 -5\frac{1}{2} Jan. 23, 1857 91.30 July 21, 1854 -1.00 Jan. 9, 1856 15.19 5.57 49.69 59.96 53.14 54.26
BAROMETER. Highest—Inches Lowest ". Great'st d'y pressure Least daily pressure Mean daily range. Means at 7 A. M. "2 P. M. "9 P. M. "for the year	29.216 Feb. 24 30.509 Nov. 16 29.390 Feb. 24 0.160 29.863 29.822 29.852	29.096 May 27 30.483 Jan. 23 29.243 May 27 0.167 29.890 29.845 29.870	30.704 in. Jan. 28, 1853 28.884 Apr. 21, 1852 30.611 Dec. 18, 1856 28.959 Apr. 21, 1852 0.156 29.890 29.850 29.874 29.871
Force of Vapour. Greatest—Inches . Least " . Means at 7 A. M " 2 P. M " 9 P. M " for the year	0.939 in. Aug. 8 0.040 Dec. 20 .308 .316 .330 .318	0.841 in. Aug. 5 .023 Feb. 8 .319 .332 .343 .331	1.059 in. June 30, 1855 .013 Feb. 6, 1855 .324 .341 .345
RELATIVE HUMIDITY. Greatest per cent Least ". Means at 7.A. M " 2 P. M " 9 P. M " for the year	100 per ct., often	100 per ct., often 18 " May 2 74.8 " 54.9 72.5 67.4	100 per ct., often 13 " Apr. 13, 1852 76.1 " 57.5 72.4 68.7
CLOUDS. No. of clear days. "cloudy days Means of sky covered at 7 A. M "2 P. M "9 P. M. for the year.	100 days 265 " 62.9 per ct. 62.8 52.5 59.4	109 days 256 " 58.7 per ct. 61.6 46.2 55.5	111.7 days 253.5 " 59.5 per ct. 60.0 44.8 54.8
Rain or melted snow, amount . No. of days on which rain or snow fell	2013	46.414 in. 125 days	44.936 in. 127 days
Prevailing winds, from	N. 58° 40′ W159	N. 81° 41′ W239	Ń. 74° 29′ W227

Births, Marriages and Deaths.—It will be highly gratifying to the fellows of the College to learn, that the law for the registration of births, marriages, and deaths, in which they took an early and active part, has thus far been attended with very satisfactory results. Nor will it be considered a useless repetition to add, that it has already become a popular and permanent institution of our city. No expense has been spared by the Board of Health, to carry out efficiently the objects of this law. Nor is it any longer considered an unnecessary tax upon time, by those who are required to make their returns. For the most part the law is cheerfully and promptly complied with by all. The few exceptions to this are rapidly yielding their opposition, as the value of the law becomes more generally known and appreciated.

Births.—The births registered for the year 1862 (Table I.) have amounted to 14,741; of these, 7609 were males and 7132 were females.

This shows an excess in favour of males equal to 7 per cent.

From investigations made by M. Villermé, of Paris, and confirmed by Dr. Emerson, in a paper on the Medical Statistics of Philadelphia, published in 1831, in which he constructed a table of the births for each month, during a period of ten years, he showed that certain months of the year, independent of other causes, exerted an unfavourable influence on both conception and the increase of population by reproduction. "These causes seem to prevail during the extreme heat of summer and in the commencement of autumn, the months of August, July and September, standing lowest in the scale designating the months of conception."

By taking the number of births for each month during the two full years in which the registration law has been in operation, 1861 and 1862, and arranging them so as to place those highest in the scale of births in their numerical order, and opposite to these the corresponding months of conception, and similar results with those procured by Dr. Emerson, on a

larger scale, will be observed, as in the following table:-

	Months.			W		le Numb Births.	er			Corresponding Months of Conception.
1.	January				٠	2898				. June
2.	March					2893				. April
3.	December	r				2706				. October
4.	February					2702		•		. November
5.	August					2695				. March
6.	October				:	2684		•	٠	May
7.	Novembe	r				2684				. February
8.	July					2676				. December
9.	Septembe	r				2667				. January
10.	June					2497				. September
11.	May			.1		2459			٠	. July
12.	April	•	•	•	•	2451	•	•	•	. August

Thus it will be seen, that the months furnishing the minimum of births and conceptions for the two years correspond with those given by Dr. Emerson for a period of ten years, viz: August, July and September, the months of conception, and April, May and June the months giving the lowest number of births.

Am. Journal of the Medical Sciences, vol. ix. p. 21.

Table I.—Table of Births under the Registration Law, for the year ending December 31, 1862, with the Wards, Sexes, and Colour

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		00	888888888888	372	74.65 4		24	64 64 76 64 64 64 64 64 64 64 64 64 64 64 64 64	743	23,735 3.13 31.94
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rens		es		1	19,929 2.58 38.69	WARDS.	- 81	24 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	480	2.34
of B		टर	57 60 60 61 62 63 63 63 63 63 63 64 63 64 64 67 67 67 67 67 67 67 67 67 67 67 67 67	749	29,123 2.57 38,88	WA	-	831 851 772 664 664 665 665 672 673	770	
Katio of		H	87 77 77 77 77 77 76 83 81 86 90 86	1016	30,886 3.28 30,39		17		1-	23,264 3,30 30,21
					E		16	64 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	605	20,067 3.01 33.16
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ercen		Twins.	16 16 17 11 11 14 17 16 17 19	154			14	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	572	21,258 2.35 42,40
ne r	BORN.	퍉.	25 25 25 25 25 25 25 25 25 25 25 25 25 2	297			_	55 555 331 331 448 448 448 448	8	
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0		Total.	1,396 1,132 1,132 1,152 1,152 1,152 1,296 1,296 1,296 1,281 1,286	14,741	h ward hs to po populat		THS.			each ward births to population s to population
	-				of eac		Монтив			
		MONTHS.	January. February March April May June June June September September September December	Total .	Population of each ward . Percentage of births to population Ratio of births to population .			January. January. April. April. June. July. August. August. Ceptember October. December.	Total .	Percentage of births to popul Ratio of births to population
			FEEE CERT CO NA	F		11		FERFRER SEA	T	1228

The explanation proposed by M. Villermé to account for the variation found at different seasons in the births and conceptions, was "the direct or indirect influence of the annual revolution of the earth around the sun, or in other words, to the order of the seasons." Dr. Emerson falls in with the views of the French savan, that fecundity in this region at least, is materially affected by high temperature, but considers that an epidemic influence, during the period embraced in his calculations, acted as a retarding force to conception.

I am therefore disposed to attribute the diminished number of births in the months of April, May and June, for the two years past, to the extreme heat in the corresponding months of conception, viz: August, July and September, in connection with the insalubrity of the season, as it is well understood that the prevalence of endemics, during these months, increases

materially our bills of mortality.

The first ward, with a population of 30,886, contributed 1006, equal to an increase of 3.28 per cent. of its population. The fifteenth, containing 32,091 souls, gave 1009, or an increase of 3.14 per cent. The nineteenth ward, with its teeming population of 38,828 does not appear to be as productive as the two former wards, as it added only 957 births, an increase of 2.46 per cent. This number of recorded births is less by 2530, or 2.72 per cent., than that of 1861.

This falling off cannot be attributed to a defective record, caused by a delinquency on the part of those appointed to collect the births, or of those required to make returns. The greatest watchfulness has been observed by the health officer and his clerks, to secure the monthly returns, and I have the assurance that the number of physicians and midwives making returns,

has been greater than those for 1861.

I can only attribute this decrease in the number of births, to the disturb-

ing events connected with the rebellion.

It will be borne in mind that not only epidemics, but other agencies of a moral, social and national character, operating on a community to the depression of their mental and physical energies, will, by reducing the forces of organic life, unfavourably affect the increase of the population by reproduction.

I therefore believe that to the discouraging influences of the present war, and the agitated and unsettled state of the country, may be justly ascribed, in a great measure, the falling off of the totals of births for the year.

The daily average of births has been $40\frac{1}{3}$.

The first three months of the year furnished the largest number of births, April, May and June the lowest. January gave the highest, 1396, and April the lowest, 1128.

The most prolific ward appears to have been the seventeenth which

yielded 770 births, or 3.30 per cent. in a population of 23,264.

The ward yielding the fewest births according to its population was the eighth. With a population of 27,770 it gave only 372 births, or 1.34 per cent, which is only one in 74.65 hundredths of its inhabitants.

In fifteen out of the twenty-five wards, the births exceeded the deaths. The fifteenth, twentieth, twenty-first, and twenty-second wards, presented the greatest contrast between the births and deaths. In the former, they exceeded the deaths by 190. In the three latter, they averaged an excess of 174.

In the remaining ten wards, the deaths exceeded the births, and the inference is a want of material prosperity in the community, or a defect in their natural numerical growth.

The preceding year (1861) yielded an increase of population by births over the deaths of 19 per cent. The year under consideration (1862), shows a decrease in population, by the deaths exceeding the births, equal to 2.38 per cent. This calculation is based upon the aggregate of deaths recorded for the year, but if the deaths of soldiers are deducted, the births will furnish an increase in the population of 6 per cent. over the waste by death.

The number of births on record from our coloured population amounted to 251. The deaths in the population reached 721. This record gives an excess of deaths among blacks of 65 per cent. over the births, and if the hypothesis be true, that a preponderance of births over deaths in a community is an index of prosperity in numerical growth, the inference is that our black population is diminishing.

Twin births to the number of 154 have been recorded. One triplet birth

was returned for the year, in the month of December.

The stillbirths amounted to 711. Of this number 414 were males and 297 were females; an excess of male stillborn children equal to 39 per cent.

Marriages.—The total of marriages recorded for the year (Table II.) have been 4662, an increase of 245 over those for 1861.

Table II.—Ages of Persons Married and recorded under the Registration Law for the year ending December 31, 1862.

	•				AGES O	F THE	WOMEN	ī.	•		TOTAL OF THE MEN.
		Under 20	20 to 25	25 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Age not given.	Toral
	Under 20	15	4								19
	20 to 25	565	798	92	13	3				12	1483
	25 to 30	166	760	328	64	4				17	1339
MEN.	30 to 40	62	326	276	198	20	1			6	889
AGES OF THE MEN.	40 to 50	2	38	58	124	42	1			6	271
AGES (50 to 60		4	6	35	24	16	1		1	87
	60 to 70		1	. 1	3	10	10	1		1	27
	70 to 80				1	3	3	2			9
	Age not given.	6	8	7	2					515	538
TOTAL	OF THE	816	1939	768	440	106	31	4		558	4662

This department of the office does not afford the same amount of satisfaction that is given in the other branches. The defect is due alone to the indifference on the part of clergymen in making their returns in accordance with the law.

The table referred to gives the ages of the parties married as far as they were returned. It will be seen, however, that in 1096, or about 12 per cent.

of the names returned, the ages were not given.

Of the parties married, 816, or 17.50 per cent. of the brides, were under twenty years of age, whereas only 19 of the grooms, or 00.47 per cent.

were in their minority.

The most popular age for marriage appears to be between twenty and twenty-five. During this quinquennial period there were 1939 brides, equal to 41.59 per cent. of the total of marriages, and 1483 grooms, equal to 31.81 per cent.

Previous to this period, or twenty-five years of age, the brides, in point of numbers, are in the ascendant, but beyond it they rapidly decline, while

the grooms increase.

Between twenty-five and thirty, there were only 768 brides or $16\frac{1}{2}$ per

cent., and 1339 or 28.72 per cent. of grooms.

There are nine marriages registered of men between seventy and eighty, and four women between the ages of sixty and seventy.

Table III. furnishes a record of the nativity of the brides and grooms.

Table III.—Number of Marriages registered under the Registration Law for the year ending December 31, 1862, with the Nativity of the Brides and Grooms.

۰		віктнр	LACE OF B	RIDES.	TOTAL OF
	NATIVITIES.	United States.	Foreign.	Not given.	GROOMS.
ACE MS.	United States	2234	239	26	2499
BIRTHPLACE OF GROOMS.	Foreign	425	1535	4	1964
BIR	Not given	27	14	158	199
TOTAL	L OF BRIDES	2686	1788	188	4662

Of the whole number of persons married, 5185, equal to 55 per cent., were American born, and 3752, or 40 per cent., were of foreign birth.

387 or 4 per cent. of the parties married, were returned without their

place of birth being named.

2686, or 57.61 per cent., of the brides were American born; of these, 425, or 16 per cent., married foreigners, while only 9 per cent. of the grooms born in the United States married foreign women.

Deaths.—The following table furnishes a general summary of the deaths for the year 1862:—

	White .										14,376	
	Coloured										721	
	Total											15,097
	Males .										8,315	
	Females										6,782	
	Total											15,097
	Male minors	or ch	ildren	à					4,2			
	Female "		"						3,7	772		
		minor	S								8,038	
	Male adults			•					4,0			
	Female adul	ts						•	3,0	10		
	W											
	Total	adults	3					•	•	•	7,059	
					•							1 F OOH
	Total	٠	• ,	•	•	•	•	•	•	•	***	15,097
	Deaths from				ses	•	•	•	•	•	13,232	
	Deaths from				•	•		•	•		711	
	Deaths from					•	•	•	•	٠	219	
	Deaths from					•	•	•	•		97	
	Deaths from	exter	nal ar	nd acc	cident	al ca	uses	•		•	838	
										•		
t	al from all ca	uses	•	•				•		٠		15,097

A comparison of this total of 15,097 with the total returns of the previous year, 1861, will show an increase of deaths recorded for 1862, amounting to 629, equivalent to an increase of 4 per cent., and is the highest aggregate on record of any former year.

The announcement of this faet is at variance with my congratulatory

introduction, and requires an explanation.

It would be doing great injustice to the sanitary and morthary interests of our city if the conclusion should be entertained that the augmentation of deaths for the year 1862, as found upon the record, has been the result of a high rate of city mortality growing out of, and influenced by the invasion and progress of epidemic diseases. Fortunately, there is ample and incontestable evidence to prove the contrary.

A single glanee at the death-table from zymoties—an index of public health—a class of diseases by which may be distinguished the salubrity or unhealthiness of the year, furnishes the proof that they have fallen off in the aggregate to the extent of 558, equal to 16 per cent, when compared

with those of the previous year, 1861.

One remarkable sign of the improved condition of the health of our city is the fact that those destructive epidemic diseases, scarlet fever, smallpox, and diphtheria, which prevailed in 1861 to a fearful degree, carrying to the grave 2450 of our population, have this year carried off only 1397 or 57 per cent. less than in 1861, and ere the year 1862 had closed, their epidemic influence was so far diminished as searcely to have been recognized in the community.

There is, however, an agency foreign to the ordinary operating causes for the increase of our city mortality that has contributed in a large degree to swell the number of the annual death-roll. It is the war in which the country is at present involved. From this cause alone it can be shown that 1202 of the deaths registered are of the number who had fallen on the battle-field, or had died from disease contracted in the camp, or on the march, many of whom have expired in the government hospitals throughout our city, and many who had returned home only to die among their friends.

None of these deaths properly belong to the annual mortality of the city, and in order to form a correct estimate, every one of them should be deducted. By this method the mortality will be reduced to 13,895, or about

4 per cent. less than that of 1861.

It may therefore with safety be announced that, notwithstanding the successful operation of the registration law, to which I so fully referred in my last report, and which enables us to secure a nearer approximation to the true number of deaths than ever before, the deaths of 1862 fall below those for 1861. This result furnishes the evidence that the city has been comparatively healthy during the year.

Nor is this good share of health to be ascribed in any measure to extensive sanitary improvements through the agency of our municipal authorities. As in former years, so with the past, very little interest has been taken towards the improvement of the hygiene of our city on the part of our

councils.

The river docks continue to be receptacles for every description of filth, sending forth their fetid and deleterious miasma into the atmosphere; the city sewerage, with all the attention recently bestowed upon the traps at the inlets to the culverts, still afford imperfect drainage. Under existing arrangements, which allow the indiscriminate use of the culverts for conveying away the deposits of privies and water-closets, as well as the solid refuse from houses, yards, gutters, and streets, they may eventually entail upon the community a far greater sanitary evil than they are designed to remove.

The system of street-cleaning is still defective in many essentials. At best, it is very imperfectly executed. Many districts of the city, where the greatest need exists for sanitary conservation, receive but little if any attention.

Intra-mural interments, as applicable to those graveyards located in densely-populated neighbourhoods and in grounds already crowded to saturation with the decomposing remains of the dead, continue to be a nuisance, dangerous to public health, demanding legislative enactment as the only

certain remedy for their entire abatement.

The proper disposal of street dirt and kitchen garbage, with their disgusting and unhealthy emanations, especially during the warm months—underground and cellar tenements, and other domiciliary arrangements, where defective light and ventilation with an overcrowded population and a want of the common conveniences of life prevail—slaughter-houses, hogs and pens, cow stables, filthy yards and alleys, together with a host of offensive manufacturing establishments, and a great diversity of minor nuisances, continue to be sanitary evils, crying aloud for redress.

These and similar causes may be regarded as among the prominent baneful influences contributing to depress the vital energies of our population, and engendering diseases of zymotic origin—diseases that are preventable, and which, with a more general knowledge of the laws of hygiene and a

wisely directed practice, would in a great measure be obviated.

In addition to these prevalent and established causes for atmospheric contamination during the year, our once quiet and peaceful city was selected by the government as a location admirably adapted for hospital accommodations for the sick and wounded of the army. During the year

just closed there have been as many as twenty-two (22) military hospitals

opened and ocenpied in various sections of the city.

Great anxiety at one time was felt for the health of the city when these hospitals were about to be opened. It was hardly to be expected that the introduction of several thousand cases of wounded and sick soldiers, under the most unfavourable circumstances for hygienic purposes, could take place—in addition to our ordinary amount of disease—without their exerting a contaminating atmospheric influence upon the sick as well as upon the healthy of the community. Nor was the fact that camp and typhoid fevers and dysenteries, and suppurating wounds of every description, would make up a large majority of the cases, and that the remainder would comprise the broken-down and feeble of the army, whose deprayed systems were already thoroughly prepared for infection, calculated to lessen the excitement in the public mind.

It is highly gratifying, however, to be able to report that these fears and apprehensions have proved groundless. The admirably selected locations of these hospitals, with but few exceptions; the excellent management and unremitted attention of the surgeons in charge; the skill displayed by the attending surgeons and physicians; the valuable hygicinic arrangements instituted, and, in short, the entire medical police established throughout, have proved of inestimable value in preventing the introduction and spread

of epidemie and infectious diseases.

It would seem to be almost out of place, in this report, to allude in any manner to the extraordinary and praiseworthy services bestowed upon the sick and wounded soldiers, who have been the recipients, from time to time, of these hospitals, by all classes of our citizens. I cannot refrain from noticing more especially the commendable and the disinterested devotion of the ladies, who have contributed so largely to the alleviation of the sufferings of these noble men, by their personal attendance, and have distributed with a liberal hand supplies and delicacies of every description, with a kindness and earnestness which belong alone to woman.

Through the politeness of the surgeons in charge of the government hospitals located in our city, I have been able to furnish the number of cases under treatment, as well as the number of deaths during the year—or, from the date of their opening up to the 31st of December, 1862, as

follows :-

Opened in 1862.	Location.		Surgeons.	Cases.	Deaths.	Per ct.	Deaths to cases.
Jan. 1st	Broad Street'	Dr.	John Neal	3,206	89	2.50	1 in 36
June 1st	W. Philadelphia	66	Hayes	5,156	164	3	1 in 31½
March 9th	South Street ²	66	Hart	1,163	47	4	1 in 25
66	5th & Buttonwood	66	Bournonville	1,665	78	4.75	1 in 21
March 5th	Wood Street .	66	Horner	1,021	22	2	1 in 46
Aug. 19th	Filbert Street	66	Breed	967	16	2	1 in 60
Jan 1st	Christian Street	66	Reese	964	40	4	1 in 24
June 18th	Master Street	66	Goddard	953	43	4.50	1 in 22
Sept. 3d	Race Street	66	Burpee	828	9	1	1 in 92
March	St. Joseph's	66	Moon	713	29	4	1 in 24
July 5th	Germantown	66	Darrach	651	4	.50	1 in 257
July 30th	Episcopal	66	Thomas	531	333	7	1 in 16
66	4th & George	66	Harlow	527	46	9	$1 \text{ in } 11\frac{1}{2}$
Aug. 18th	Hestonville	66	Agnew	301	4	1	1 in 75
66	12th & Buttonwood	66	Morton	257	1	0.39	1 in 163
Nov. 2d	Haddington	66	Levis	191			
- 66	Turner's Lane	66	E. S. Dunster	606	17	2.75	
March 1st	Summit House	66	Sergeant	773	32	4	1 in 24
July 11th	Catharine Street	66	Picot	199	8	4	1 in 25
66	Broad & Prime	66	Kenderdine	270	353	13	1 in 7
66	Islington Lane	66	J.V. Patterson	17	1		1 in 17
. 66	Camac's Woods	"	W. M. Camac	14			
				20,973	718	3.39	1 in 44
	Cooper Shop	"	Nebinger		8		
		66	Ward		14		
-	Union Hospital	66			14		

From this record it will be seen that 20,973 medical and surgical cases have been treated in these hospitals, with a loss by death of only 718, or 3

per cent., and as one death in every 44 of the cases.

When all the unfavourable circumstances surrounding these sick and wounded soldiers from the date of their injuries on the battle field, or their sickness in camp, their exposure and sufferings, from the want of timely surgical and medical attention, the distance they were conveyed by land and water carriage, and the unpromising condition in which many of them were found upon their arrival at the hospital to which they were conveyed, some of whom were moribund, and quite a number dying on that or the following day—the wonder is, that the percentage of mortality among them was not far higher. No stronger evidence could be produced of the skilful manner in which the medical and surgical treatment in the government hospitals of our city has been conducted, than this limited percentage of deaths.

Estimating the population of the city at 600,000, and the aggregate deaths on record 15,097, as represented in Table No. 4, which includes 711 stillborn children, and 1202 deaths of soldiers, which do not properly belong to our city mortality, and it gives us one death in every 40, or twenty-five

deaths in every 1000 of the population.

By deducting the stillborn and the deaths of soldiers which I have designated as of foreign origin, and the result presents a more favourable estimate; one death in every 45 of the population, and twenty-two in every 1000.

The regular treatment did not commence until June 1. Opened in 1861. Many of these were moribund when brought from the cars.

Of the sexes the rate of mortality has been 8315 males, and 6782 females. This is an unusual excess of male deaths, equal to 1523 or 23 per cent., amounting to more than double the ordinary excess of deaths among males, and may be properly attributed to the large number of the remains of soldiers brought here for burial, and of those who expired in the U.S. hospitals in our city.

The adult deaths were 7059; the minors or children 8038. This excess of deaths in minors, or those under twenty years of age, has been unusually small, not over 14 per cent. Last year it reached 64 per cent. The highest number of deaths in any one period of life, was among infants under one year. They amounted to 3661 (including the stillborn) equal to 23 per cent. of all the deaths. Those under five years numbered 6626, equal to 44 per cent.

By reference it will be found that these figures fall considerably below those of the previous year. This difference is owing mainly to the decline

of deaths from smallpox, scarlet fever and diphtheria.

The number of adult deaths compared with those of minors is a very prominent feature in this report. Those between 20 and 40 years amounted to 3336, or 48.50 per cent. above those in the same period for 1861. Those between 40 and 70 were 2666, or 18.69 per cent. more than those in 1861.

From seventy upwards to extreme old age, the deaths were 1057, or 18.69 per cent. over those in 1861; the variation, though not very great, is sufficient to prove that some extraordinary influence was at work to effect the change.

The same outside cause, to which I have already adverted—the mortality in the army of the United States, will in a great degree account for these

results.

MONTHLY MORTALITY.—The deaths for several months throughout the year are given in the accompanying table.

Return of Deaths in each Month, showing the number of Deceased Males and Females, Adults and Children, for the year 1862.

1862.				168.	Females.	Adults.	Children.	al.
Monte	8.			Males.	Fen	Adv	Chi	Total.
January .				664	650	557	757	1,314
February.				576	504	460	620	1,080
March				601	603	531	673	1,204
April				660	553	586	627	1,213
May		٠		685	660	653	692	1,345
June	٠	٠		551	451	480	522	1,002
July	٠	٠		966	801	649	1,118	1,767
August .	٠	٠		1,061	594	803	952	1,755
September	۰	٠		573	464	490	547	1,037
October .	٠	٠		754	481	676	559	1,235
November	٠		٠	570	451	549	472	1,021
December	•	٠	•	654	470	625	499	1,124
				8,315	6,782	7,059	8,038	15,097
				15	,097	1	5,097	9.1

The greatest number of deaths in any one month was in July, which furnished 1767, while August contributed 1755. June gave the lowest, 1002, and November the next, 1021.

The deaths in every month exceeded 1000, and have been more equally

distributed than usual.

The month of May, generally a healthy period of the year, gave 1345 deaths—the third in numerical order of mortality.

The months of October, November and December, furnished a heavier mortality among adults than in children, equal to 20 per cent. This is an uncommon occurrence, and can only be accounted for by the deaths among soldiers.

MORTALITY IN WARDS.—The following table presents the deaths in each of the twenty-four wards, with the population of each ward according to the last census. The ratio of deaths to population calculated in this table, will differ from that elsewhere given, as it is based on the census of 1860, instead of reckoning the natural increase of the population.

Table IV.—Mortality in each Ward, with the Population (according to the late Census), the ratio of Deaths to Population, the Percentage of Deaths in each Ward to the Total Mortality, and Deaths in each thousand of the Population. Also the Deaths from unknown Wards, from the Almshouse and from the Country.

		1	1		
· WARDS.	Population last census.	Deaths.	Deaths to	Per cent. of deaths to to- tal mortality.	Deaths in each thou- sand of
	rast census.		population.	tal mortanty.	population.
First	30,886	1,037	1 in 30	6.86	33.48
Second	29,123	827	1 " 36	5.47	28.51
Third	19,929	491	1 " 41	3.25	24.55
Fourth	23,461	711	1 " 33	4.70	30.87
Fifth	24,792	520	1 " 48	3.44	20.80
Sixth	14,882	350	1 " 43	2.31	23.33
Seventh	31,267	829	1 " 38	5.49	26.74
Eighth	27,770	465	1 " 60	3.08	16.60
Ninth	17,196	338	1 " 51	2.23	19.88
Tenth	21,849	599	1 " 37	3.96	27.27
Eleventh	16,681	384	1 " 44	2.54	22.58
Twelfth	16,681	429	1 " 39	2.84	25.23
Thirteenth	20,045	380	1 " 53	2.51	19.00
Fourteenth	24,258	493	1 " 50	3.26	20.54
Fifteenth	32,091	819	1 " 40	5.42	25.59
Sixteenth	20,067	520	1 " 39	3.44	26.00
Seventeenth	23,264	677	1 " 35	4.48	29.43
Eighteenth	20,441	596	1 " 35	3.94	29.80
Nineteenth	38,828	1.042	1 " 38	6.90 •	26.71
Twentieth	29,963	736	1 " 41	4.87	24.53
Twenty-first	17,159	284	1 " 61	1.88	16.70
Twenty-second .	17,173	286	1 " 61	1.89	16.82
Twenty-third .	23,985	329	1 " 73	2.17	13.70
Twenty-fourth .	23,738	660	1 " 36	4.37	27.50
Twenty-fifth		130		0.86	
Unknown		135	1	0.89	
Almshouse		508		3.36	
From the country	*****	522		3.59	
Total for 12 mos.		15,097		100.00	
Total population	565,529		V		
Ratio of deaths to			1 in 38		

The first ward, this year, furnishes the highest number of deaths according to its population, 1037, and the twenty-third the lowest, 329. The former giving 33 and the latter 13 in every thousand of their population.

The first ward therefore appears to have been the most unhealthy, and

the twenty-third the healthiest.

The deaths in the nineteenth ward are reduced a fraction less than in 1861, and although charged with 1042 deaths, it rates the eighth in the line of descent from the first ward, the most unhealthy, the deaths being 26.71 in every thousand of its population.

The seventeenth ward last year gave 36 deaths to every thousand of its population, and was rated the most unhealthy. This year it contributes only 29.80 to each thousand, and stands the fourth in numerical order from

the first, the most unhealthy.

The five most unhealthy wards, all of them crowded and defective in sanitary improvement, have been the first, fourth, eighteenth, seventeenth and second, in the order named. They have furnished 32 per cent. of all the deaths for the year.

These are the same found grouped together in last year's report as the most unhealthy—substituting, however, the second for the nineteenth, and taking its place as the fifth in the line of descent from the most unhealthy.

There has been an increase in the number of deaths recorded, over those of the former year 1861—in fifteen of the wards, while in the ninth, eleventh, thirteenth, sixteenth, seventeenth, nineteenth, twentieth, twenty-first and

twenty-third, they have fallen off.

The eighth ward, with its 27,770 inhabitants, continues to present a very favourable record for health. Furnishing only 1 death in every sixty, or 16 deaths in every thousand of its population, while its adjoining ward on the south, the seventh, with a population of 31,267, contributes 1 death in every 38, or 26_{100}^{-7} in every thousand of its population. This unfavourable contrast with its northern neighbor, can readily be accounted for by the numerous imperfections that will be found to exist in its sanitary condition, particularly in its eastern, southern and south-western sections.

The ninth, thirteenth and fourteenth wards, with their combined population of 61,499, present also a very favourable record. They return 1 death

to 51, or 19.80 in every thousand of their population.

ZYMOTIC DISEASES.—This class embraces those which belong to epidemies, endemics, and contagious diseases, and have their origin in causes which are specific and local, and considered as preventable wherever a careful attention is given to sanitary improvements. These are the diseases which carry off so many of our infant population, especially among the indigent, and those who are compelled to rear their offspring in the crowded sections of the city, where the provision for ventilation, light, and other sanitary arrangements, is defective in the extreme. The deaths from the diseases under this head, as may be seen by the accompanying table (Table V.), have amounted to 3506. Compared with those of 1861, the previous year, and they are less by 558, or 16 per cent.

Table V.—Zymotic, Epidemic, Endemic, and Contagious Diseases, for 1862. Division 1. Showing Sex and Age.

		Міхова.	623 111 111 122 223 123 123 123 123 123 1	2407
		ADULTS.	1 :400 888 4 6 : a E 6 4 8 8 8 4 E 6 : :	1099
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	υž	40 to 50.	.:41.00000000000000000000000000000000000	133
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		.02 01 31	::: 52 0 50 0 50 0 50 0 50 0 50 0 50 0 5	144
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		5 to 10.	.:: 37, 57, 53, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51	278
		2 to 5.	1: 1, 1, 1, 2, 3, 3, 4, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	809
,		1 to 2.	:02 :02 :02 :03 :03 :03 :03 :03 :03 :03 :03	538
		Under l year.	428 428 448 614 614 71 72 73 73 73 74 75 75 75 75 75 75 75 75 75 75 75 75 75	787
		Girle.	308 55 169 31 21 22 236 103 103 103 108 22 22 22 23 24 24 25 108 24 25 25 25 25 25 25 25 25 25 25 25 25 25	1182
	×.	Boys.	32: 65 65 1339, 4339, 13	1225
	SEX	Females.	30.8 32.8 32.1 11.5 11.5 11.5 2.8 2.8 1.8 1.9 1.9 1.9 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	1477
		Males.	1 28 25 25 25 25 25 25 25 25 25 25 25 25 25	2029
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		ໝໍ		Total
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			Cholera inf in Dipthheria Dipthheria Dipthheria District Erysipelus Fever, cong	
			C AACES HEROS	

Table V.—Zymotic, Epidemic, Endemic, and Contagious Diseases for 1862—Continued. Division 2. Showing Location, Colour, Nativity, and Wards.

	'SULVAI			
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		23	11: 1993: 1591: 159	128
		22	: : : : : : : : : : : : : : : : : : : :	71
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There are, however, 526 of these deaths' that do not belong to our city mortality, having been brought here from the army. By deducting these, the deaths under this head will be reduced to 2980, or 1084 less than the former year, equal to 26.50 per cent.

To the total of deaths for the year, from all causes, these rate as 23 per

cent., or one in every 4 and a third.

The falling off in the deaths from scarlet fever, smallpox, and diphtheria, has been 1050 from those in 1861.

This amount, however, has been made up in a great measure by the large increase of deaths from typhoid fever and diarrhea. The former rose from 281, in 1861, to 658, and the latter from 183 to 417.

The heavy increase of mortality in these diseases can only be ascribed to deaths in the government hospitals, and to those brought here from the seat

of war for interment.

The only disease named in this class, that has been increased in its mortality to any extent, over that of the former year, and cannot be attributed to foreign origin, has been hooping-cough, which has run up to 208 from 93. In every other disease, with the exception of those already named,

there has been very little change.

Cholera infantum, as usual, has provided 629 deaths for the record, and unlike many other diseases where the deaths are distributed over the entire year, its mortality is confined to the three summer months of July, August, and September, at the same time selecting 327 or 50 per cent. of its innocent victims from the first, second, third, seventh, fifteenth, nineteenth and twentieth wards, which may be considered by far the most crowded and the most unsanitary sections of the city.

¹ The following catalogue has been obtained from the Registration Office. It gives the names of the diseases and casualties on the certificates of death of those soldiers of our army who have been buried in this city during the year 1862:—

				•	
Typhoid fever,	263	Dropsy,	9	Inflammation of heart,	1
Wounds, gunshot,	292	Congestion of bowels,	1	Congestive fever,	1
Disease of the heart,	11	Tuberculosis,	4	Dyscrasia,	1
Peritonitis,	7	Congestion of lungs,	1	Erysipelas,	4
Diphtheria,	16		2		3
Apoplexy,	5	Ossification of aortic		Bronchitis,	3.
Intermittent fever,	2	valve,	1	Cholera morbus,	2
Pleuro-pneumonia,	9	Compression of brain,	1	Marasmus,	1
Typhoid pneumonia,	24		4	Palsy,	1
Drowning,	3		3		1
Consumption,	88	Sanulat farran	7	Hepatitis,	1
				Larynx,	1
Brain fever,	3	Rheumatism,		Concussion of brain,	2
Pneumonia,	23	Jaundice,		Gastric fever,	1
Inflammation of bowels			4 0	Parotitis,	1
Debility & exhaustion,	34	Gangrene,	6	Tetanus,	1
Convulsions,	3	Tonsillitis,	1	Effusion on brain,	1
Ossification of arteries,	1	Remittent fever,	7	Scrofula,	1
Inflammation of brain,	6	Disease of lungs,	1	Epilepsy,	2
Congestion of heart,	1	Pyemia,	15	Murder,	1
Ulceration of bowels,	4	Bilious fever,	1	Scrofula,	1
Intemperance,	3	Falling from a window		Softening of the brain,	2
Dropsy of the chest,	1		177	Consumption of stomach	ī
Measles,	3	Softening of brain,	1	Trismus,	, †
Variola,	7				+
		Accidents on railroad,	13	Mania-a-potu,	1
Congestion of the brain,			1		
Gastro-enteritis,	8	Sunstroke,	1	Total, 1,2	02
Unknown,	35				

Searlet fever, smallpox, and diphtheria have prevailed during the year, but not to an alarming extent. During the first quarter, they furnished 437 deaths; in the second, 244; in the third, 154, and in the fourth, 215. These figures show a considerable decline in the second and third quarters, and although there was a slight increase in the fourth, they present a falling off of one-half from the first quarter. Smallpox fell off from 152 in the first quarter to 22 in the fourth. Scarlet fever, in the same period, from 189 to 92.

Diphtheria, however, appears to have increased during the last quarter. The first gave 96 deaths; the second, 56; the third, 72; while the fourth run up to 101.

Table A.—Wards in which Zymotic or Epidemic Diseases were prevalent and deaths over 150.

WARD	s.					Population.	Tot	al deaths.	Deaths from zy	motics.
1					٠.	30,886		1037	238	
2						29,123		827	216	
7						31,264		829	219	
15						32,091		819	181	
19		•	•			38,828		1042	271	
20						29,963		736	192	
24	•	•				23,738		660^{1}	221	
					-					
						215,893		5950	1538	
		Fro	m cou	ntry		• •			. 155	
									1693	

Table B.—Wards in which Zymotic or Epidemic Diseases have not prevailed extensively, and where the deaths were under 150.

WARD	s.					Population.	Total deaths.	Deaths from zymotic
3						19,929	491	112
4 5			*.			23,461	711	125
5		•				24,792	520	92
6 8 9		•	•			14,882	350	68
8	٠	•	•			27,770	465	93
	•					17,196	338	61
10	٠	•	•			21,849	5 99	132
11	•	•				16,681	384	86
12			•			16,681	429	107
13	•	•	•			20,045	380	81
14	•	•				24,258	493	100
16	•		•			20,067	520	122
17						23,264	677	141
18	٠	•			•	20,441	* 596	125
21	•	•				17,159	284	72
22	٠	•	•	•		17,173	286	71
23	•		•			23,985	329	85
25	٠	•					130 ·	40
Unl	znor	wn.					135	25
					_		· —	
						349,643	8117	1738
		Alm	shous	e .				. 75
								1019

The above tables have been prepared in order to furnish some idea of the healthy and unhealthy localities or wards in the city.

¹ Less those from almshouse 508.

In my last year's report I presented similar tables, in which the one marked A, analogous to that in this report, enumerated eleven wards, where deaths from epidemic diseases had exceeded one hundred and fifty. The table A, given above for 1862, recapitulates only six of these wards, the first, second, seventh, fifteenth, nineteenth and twentieth, to which I have added the twenty-fourth, where the deaths from zymotics were above one-hundred and fifty.

The decline of deaths from zymotic or preventable diseases in the remaining five of the eleven wards, as presented in table A, 1861, viz: the fourth, eleventh, sixteenth, seventeenth and eighteenth, may serve as an indication of the improved state of health in the city; nor have I any doubt, had it been practicable to have secured the deaths from zymotic diseases that have occurred in the government hospitals in our city, there being one in each of the above seven wards, and those that have been brought into the city from the seat of war and other places and buried from these wards, and deducted them from the total of deaths properly belonging to these wards, the figures would stand considerably below one hundred and fifty in each, making such a table unnecessary and effecting a sensible change in the index that pointed out these wards as the most unhealthy.

Table B embraces the remaining eighteen wards, together with the deaths from unknown wards. An average of the total of deaths in these eighteen sections—uniting the twenty-fifth and the unknown in one—will give 450 for each ward, while an average of the other seven wards makes the deaths 850 in each; thus showing the mortality to be nearly double. If we average the deaths from zymotic diseases in the seven wards, it returns 219

for each, and in the eighteen, the average will be 96 deaths.

This may not be the most accurate test of the health of one ward over another, as there may exist causes modifying unfavourably the mortality in one section over that of another, foreign to its sanitary condition, yet enough is learned to enable us to discriminate between the healthy and

unhealthy districts.

The twenty-first, twenty-second and twenty-third wards, which are suburban, and to a large extent rural, furnished as high a rate of deaths from zymotic diseases as did several of the intramural wards with an equal population, and surrounded by far more adverse influences, incident to a residence in a crowded city. The cause of this mortality may be ascribed to the existence of malaria, which is to be found in most of the rural districts adjacent to our built up wards, where, during the autumnal season, there is abundance of decaying vegetable matter, together with numerous small sluggish streams of water and stagnant pools, on the unimproved lots, that create disease of an endemic character.

The fifth, eighth, ninth and twenty-third wards appear to have given only three deaths, from zymotic diseases, in every thousand of their population; the sixth, thirteenth, twenty-first and twenty-second wards contributed four in every thousand, while the remaining sixteen of the twenty-four, furnished a still higher proportion. It may, therefore, be assumed with entire safety, that the above named wards present a very favourable character for health, in comparison with other sections of the city. Three

of them, it may be observed, are classed as rural districts.

The fact must not be overlooked that a large proportion of the deaths from this class of diseases, as a general rule, fall upon children and infants under five years of age. During the year under consideration, 1928 were

of this description, equal to 55 per cent. of the entire mortality. Of this

number 784, or 22 per eent., were under one year of age.

The principal diseases of which these children died, were cholera infantum, diphtheria, diarrhœa, searlet fever, hooping-cough, measles and smallpox.

Of this latter disease, there were in all 264 deaths, and of these 196, nearly two-thirds, were in children under ten years of age. This fact furnishes a strong appeal as to the necessity of an obligatory law for vaccination.

The deaths from smallpox were most numerous in the first, second, and nineteenth wards.

The deaths from diphtheria were distributed very generally through the eity, except in the eleventh, sixteenth and twenty-first wards. The first two gave 6 and 5, but in the last named not a death is recorded.

Hooping-cough has prevailed to a greater extent during the year than usual. The first and the third quarters, the eoldest and warmest seasons

of the year, furnished the highest number of deaths.

The mortality for the year reached 208. This is the largest number of deaths that has ever been recorded in this city for any single year. In 1839 they reached 191, and in 1842, 197. Every other year, with the exception of 1844 and 1846, when they rose to 101 and 104, the mortality was quite small.

Measles has also been on the increase. The deaths having amounted to 109. Like diphtheria, the disease appears to have been very general through the city, if the deaths will serve as an index, but in the twenty-first, a rural ward, there is not a death recorded. There were four deaths in adults, three between 10 and 15 years, and the remainder under 10.

I have intentionally omitted the tables heretofore constructed, which designate the different varieties of sporadic diseases, and separate them into classes, according to the particular organs or parts of the system involved. In making minute investigations these tables are certainly useful, but as the diseases by name are to be found alphabetically arranged in the general table of deaths marked No. VI., they can be referred to for general purposes, and subdivided by those who take a special interest in mortality statistics.

In place of these classified divisions, I offer the following table of the most fatal sporadic causes of death which have occurred during the year, as well as during the previous year 1861. Inserting those causes only that rate above fifty in 1862, and comparing them with those of 1861.

Deaths from Sporadic Causes in 1862, compared with those from similar causes in 1861.

•	1861.	1862.				1861.	1862.
Abscess	47	52	Gangrene .			46	55
	162	176	Hemorrhage			72	82
Burns and scalds		81	Inflammation	of Brain		305	365
Cancer (different varieties)		181		of Bronchi		138	116
	$\cdot \cdot 122$	135	44	of Lungs		681	749
	304		"	of Peritoner	ım	67	87
	275	324		of Stomach	&		
" of Lungs .	110	147		Bowels		238	306
Convulsions	636	703	Inanition .		٠	124	125
Consumption of the Lungs		1949	Intemperance			29	8 2
Dropsy	284	236	Marasmus			533	643
of Brain	222	200	Mania-à-Potu			32	57
" of Chest	63	55	Old Age .			203	219
Disease of Brain	112	98	Palsy .		٠	159	164
" of Heart	265	242	Scrofula .			76	74
Debility	826	940	Stillborn .			758	711
	99	135	Unknown .			104	97
Effusion of Brain	73	69	Gunshot Wou	nds .	٠	21	29 2

With few exceptions it will be observed that there is a degree of uniformity in the death's from various causes, and this order is not peculiar to these two periods, it may be seen in the mortality of one year with another, in our own bills of mortality, likewise in those of other cities for a succession of years, and is only disturbed by an increase or decrease of the population.

The most marked inequality in any one cause between these two years is presented in that of gun-shot wounds, which figures 292 in 1862, and only 21 in 1861, which at that time was considered an extraordinary number. It needs no argument to prove from whence came this remarkable increase.

Another exception is that of debility, in which there is an increase of 110 in 1862, as also of consumption of the lungs, 132; intemperance, 53; inflammation of the lungs, 68; inflammation of the brain, 60; congestion of the brain, 40. Many of these may be traced directly to the record of causes for deaths among soldiers.

The similarity, as shown in this table, between the causes of death for the two years is remarkable in apoplexy, burns and scalds, casualties, diseases of the brain, debility, effusion of brain, inanition, old age, palsy, scrofula, cancer, and unknown.

The proportion of deaths by consumption to those of other diseases, has been one in $7\frac{1}{2}$, and the percentage to all other deaths 12.71.

To the population, estimating it at 600,000, they were as one in every 308.

The excess of deaths is with females. The most prevalent age for deaths from consumption is between twenty and thirty. It carried off in 1862 in this decennial 608 persons. More than one-half of all the deaths occurred between the ages of fifteen and forty.

The first, second, fourth, seventh, tenth, fifteenth, nineteenth and twentieth wards are charged with 881 deaths from consumption, more than one-half the entire mortality, and these wards are with but one exception the tenth among the most unfavourable for health.

The almshouse furnished 124 deaths, and the coloured population is set down for 149 deaths from consumption.

The mortality assigned to debility, intemperance, mania-a-potu and in-

flammation of the brain, have all increased more or less, while on the other hand eronp, dropsy (general and of the brain and ehest), and disease of the

heart have shown a moderate decline.

There are to be found certain variations in the mortality record for 1862 from that of 1861, and even of earlier years, which depend in some measure upon the rebellion and its results, that are deserving of a passing notice. They are as follows:—

1. The increase in the annual aggregate of deaths, without the preva-

lenee of any unusual epidemie.

2. The unusual mortality among males, as compared with those of females, equal to 23 per cent., and presenting an excess more than double the usual number.

3. The limited proportion of deaths of minors or children to those of adults, not over 14 per cent. The previous year they exceeded 64 per cent.

4. The astonishing increase in the deaths from gun-shot wounds. From

21 of the preceding year to 292!

5. The increased mortality from typhoid fever, amounting to 658, or 477 above those of 1861, equal to 170 per cent. The excess in all probability was from the deaths of soldiers.

6. The falling off in the deaths from scarlet fever, smallpox, and diphtheria, when compared with those for 1861, amounting in the aggregate to

1397, or 57 per eent.

7. The unusual annual increase in the deaths from consumption of the lungs and debility. The former amounting to 132 or 7 per cent., and the latter to 112 or 13 per cent.

8. The large number of the remains of soldiers brought into our eity for interment, amounting to 1202, eausing our rate of mortality to appear

higher by 4 per eent. than belongs to it.

9. The organization of 22 government hospitals in our city, where there have been treated during the year 20,336 sick and wounded soldiers from the seat of war, thus swelling our list of city deaths—one for every death in these hospitals amounting to 700.

Table VI.—Interments in the City of Philadelphia from December 28, 1861, to January 3, 1863. Division 1 Mortality classified according to Sex and Age

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 1. Mortality classified according to Sex and Age.

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 1. Mortality classified according to Sex and Age.

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TABLE VI.—Interments in the City of Philadelphia during 1862—Continued. Division 1. Mortality classified according to Sex and Age.

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 1. Mortality classified according to Sex and Age.

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 1. Mortality classified according to Sex and Age.

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 2. Mortality classified according to Colour, Nativity, and Wards.

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 2. Mortality classified according to Colour, Nativity, and Wards.

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 2. Mortality classified according to Colour, Nativity, and Wards.

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 2. Mortality classified according to Colour, Nativity, and Wards.

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Table VI.—Interments in the City of Philadelphia during 1862—Continued. Division 2. Mortality classified according to Colour, Nativity, and Wards.

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Table VI.—Interments in the City of Philadelphia during 1862—Concluded. Division 2. Mortality classified according to Colour, Nativity, and Wards.

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