

**[Report 1904] / Medical Officer of Health, Stockton (Union) R.D.C.**

**Contributors**

Stockton (Durham, England). Rural District Council.

**Publication/Creation**

1904

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Stockton Rural District Council.

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REPORT

OF THE

Medical Officer of Health

**FOR 1904.**

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Stockton-on-Tees :

PRINTED AT THE OFFICE OF EDWARD APPLEBY, 59, HIGH STREET.

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1905.

Health

NORTON-ON-TEES,

March, 1905.

TO THE RURAL DISTRICT COUNCIL  
OF STOCKTON-ON-TEES.

GENTLEMEN,

I regret to have to report that the District has not been so healthy in the year 1904 as in the several years that preceded it. This is largely accounted for by several fatal epidemics that attacked different areas. The year was very dry and the rain fall low, consequently the drains and ground around houses never got the thorough washing to cleanse them. All the ordinary infectious diseases became at times epidemic, Smallpox, Measles, Whooping Cough, Scarlet Fever and Diphtheria, attacking different localities and leaving their trail of death. Of these, Measles was the most fatal causing 18 deaths, next Diphtheria with 9, then Whooping Cough with 6 deaths. The outbreak of Smallpox at the Longnewton Huts was brought by a tramp who had tramped through the infected areas in Yorkshire. The Diphtheria epidemic has been more or less over the whole district coincident with same condition over a large portion of the County of Durham. The cases have not been associated with sanitary defects but have been communicated by infection. The deaths from Measles were due to the disease being of a very severe type, and associated with Broncho Pneumonia.

The number of Births registered during the year was 507 and the birth rate on the estimated population 29.1. This is an increase of nearly 1 per thousand on the previous year. The Birth rate for 1904 in England was 27.6.

The number of deaths occurring was 258, giving a death rate of 14.7 per thousand. It is an increase of 1 per thousand on the previous year and is more than accounted for by the increase of the deaths due to the various epidemics that have attacked the district. The Death rate for England was 16.2.

There has been 160 new houses certified in the district, which, giving 5 to each house, increases the estimated population by 800. Last year 98 houses were erected.

Building is still going on at the same rate in the residential parts of the district. The distribution of the new houses will be seen by the following table :—

Billingham	...	...	...	...	53
Eaglescliffe	...	...	...	...	15
Grindon	...	...	...	...	4
East Hartburn	...	...	...	...	5
Newton Bewley	...	...	...	...	1
Norton	...	...	...	...	74
Preston	...	...	...	...	6
Wolviston	...	...	...	...	2

I regret that there are still houses built in the district occupying very little ground consequently small rooms. The price, plentiful supply of ground and the cheap rates would allow a good percentage for capital expended in building property without this scrimping, and the result would be much more satisfactory as to both the health and comfort of the tenants.

The sewers on the whole have acted well and where deficient or out of repair been immediately mended. They have been

regularly flushed, which became a necessity owing to the dry weather all through the Summer, Autumn, and Winter. The sewers in the streets which have subsided at Haverton Hill have had to be turned the opposite way and is now pumped out of a tank. This is the only way to deal with the sewage until the subsidence stops.

The scavenging in all the district is done by Contractors and the work has been satisfactorily done. There were some complaints as to irregularity, but most of them are found on enquiry to be due to the fault of the occupier not giving the facilities for the cleansing.

The whole of the area supplied by the Water Board has had a good supply of pure water, except Wolviston, where the supply is intermittent. This is due to the want of proper service which I hope will be remedied by the Water Board. It is absolutely necessary that this should be done as a part of the village, which was supplied by a pump in the main street, is now dependent upon the public supply, the pump having been removed. The pumps in the different villages met the demand with a good supply of water.

There is no lodging-houses in the district.

The slaughter-houses have been visited and found to be clean and sweet.

The dairies have been visited and are satisfactory.

The only two bake-houses have been visited. They employ one hand each. They are clean, airy, and healthy.

There is only one workshop, a shoemaker's, which employs one hand and a boy. It is satisfactory.

The horse slaughter-house at Two Mile Houses has been regularly visited and found satisfactory.

Nuisances have been remedied either by their being pointed out to the owners or by notice served by the Authority. In no case was legal action necessary.

Every case of infectious disease has been visited, and where advisable, possible and with consent of the parents, removed to the Hospital. The accommodation at the Hospital has not been sufficient to take the cases. It is quite impossible to have Hospital accommodation to meet the epidemics which have visited the district, and I may say that the Stockton Corporation have loyally given us a fair share of the available beds although their district was suffering from the epidemic as much as ours. The Corporation has doubled the number of beds for Scarlet Fever and the increase has been of great service during the outbreak. The Diphtheria has absorbed the Typhoid beds and I am glad to say we have not needed any case of Enteric removed.

The County Council allows Bacteriological examinations for Diphtheria, Typhoid, and Tubercle. A large number of specimens have been examined. During the epidemic of Diphtheria the swabs of many cases with membrane were reported as negative, that is, not showing the true Diphtheria Bacillus. I have no doubt that in many cases the Hoffman Bacillus was present. If possible it would be better that the examination should include both forms.

The estimated population of the district is 17446. The Census population in 1901 was 14841. Since 1894 the population has increased 5000.

**SMALLPOX.**—An outbreak of Smallpox was detected at the Longnewton Huts. 7 cases were found. The first case was in a man who had been on tramp, and at the stage of infection, was passing through an infected area in Yorkshire. The earlier cases were not brought under my notice owing, undoubtedly, to the mildness of the attack only a few spots occurring. I had them all isolated in the Hospital and got the disease stamped out. Another case occurred at Billingham. This man on the day for infection, was travelling to York by train and it is probable that he contracted the disease then as no source of infection was known in this district at the time. He also was immediately removed to Hospital.

**MEASLES.**—Two fatal epidemics occurred in the district one at Stillington in the Spring, and another at Haverton Hill in the Autumn. In both outbreaks the cases were of a severe type being complicated with Broncho Pneumonia. The total number of deaths from this disease was 13.

**SCARLET FEVER.**—This disease was with us all last year, every now and then in different places becoming epidemic. In most of the instances when a number of cases were reported I found the infection to have come from the Schools. The total number of cases reported was 98 ; Norton being the place where most of them were notified. 36 of the cases were treated in Hospital. Whenever I had a suspicion that the Schools were the source of infection I had them thoroughly disinfected,

**WHOOPIING COUGH.**—Caused 6 deaths in the spring. It was prevalent all over the western area of the district especially at Stillington.

**DIPHTHERIA.**—This disease has been with us all the year but in the Summer and Autumn was worst. The cases have been mostly communicated by infection and very often I have traced the cases from contact at Schools. In two instances several cases were reported and, on inquiry, I found that cases had been sitting close together in class, and a case near them infectious. In one instance the boy communicating the mischief had nothing but a little running from his nose but a swab taken from it gave cultivation of the Diphtheria Bacillus. I had an opinion that I was not keeping the cases isolated long enough and subsequently I had examinations made from the throats of infected cases weekly and I found that active cultivations were produced to seven weeks, and in one case until 9 weeks. 47 cases were notified of which 33 were in Norton. The number of deaths from Diphtheria all over the district was 9.

**ENTERIC FEVER.**—The total number of cases notified was 9 resulting in 2 deaths. The cases were all spasmodic and no sanitary defects were in their surroundings.

DIARRHOEA.—5 deaths were registered. There was very much less of this disease in the Summer and Autumn of last year than usual.

TUBERCULAR DISEASES caused deaths in 37 cases, while cancer accounted for 16. Inflammation of the respiratory organs cause 31 deaths: fewer than the previous year.

### NORTON.

Census population 4532 Estimated population 5832, Births 138, birth rate 23.6: deaths 75, death rate 12.8. Although the death rate is very low Norton was attacked by two serious epidemics; 38 cases of Diphtheria with 5 deaths and 81 cases of Scarletina with no deaths were notified during the year. I had the Schools frequently disinfected as, in many cases, I believe the diseases were contracted there. The birth rate is much lower than last year and I fear is not entirely due to the large number of age 1 people that live in the village.

The sewers have acted well during the year and have been frequently flushed. The scheme for relieving the drainage at the top of the village and draining Billingham Lane is still receiving the attention of the Authority. There have been 74 new houses certified during the year and many of the new streets have been completed. These new streets it is the intention of the Authority to have paved and channelled, and powers have been obtained to carry this work out.

The scavenging has been done by contract satisfactorily. I would suggest that the lighting should be done with incandescent mantles for, in the main street especially, the light sometimes is very inefficient. This change is rendered necessary as the composition of the gas is manufactured now for the using of incandescent burners more than the simple jets and I am sure that the change would be cheaper and better light obtained.

## BILLINGHAM.

Census population 3651 Estimated population 4381 Births 150 birth rate 34.2, Deaths 67 death rate 15.2.

There is a considerable increase of the population in this parish, 53 new houses having been certified and occupied during the year. These are principally in Billingham Village. The works of Messrs. Hemingway having been closed and the salt industry seriously depressed have affected the employment of the people, but Messrs. Casebourne and Co. have erected large cement works on the foreshore between Billingham and Haverton Hill.

The sewers in the parish have acted well and been frequently flushed, except in the streets before mentioned which are subsiding at Haverton Hill, where temporary arrangements have been made for pumping the sewage into the main sewer. The scavenging has been well done by contract and the lighting by gas at Billingham and oil lamps at Haverton Hill fairly satisfactory.

## COWPEN BEWLEY.

Census population 1121 Estimated population 1121 Births 40 Birth rate 35.6: Deaths 20 Death rate 17.8

There is no building of new houses in this parish and no increase in the resident population, but the works have enormously increased. Messrs. Bell Bros. have been spending a vast amount of money in the development of their works erecting rolling mills coke works &c. consequently the working population is increased. In such works fatal accidents unfortunately frequently occur and these come into our death rate, although many of these are not in residence in the district.

The sewers both at Port Clarence and Cowpen Bewley have acted well and the scavenging is well done and the water supply has been good. Cowpen Bewley derives its water supply from pumps. These have been sufficient.

## WOLVISTON.

Census population 607. Estimated population 647. Births 23, birth rate 35·5. Deaths 9, death rate 13·9.

The death rate of this village is very much lower than last year, two cases of death were registered from Whooping Cough. Only one case of infectious disease was notified during the year.

The Tees Valley Water Board's supply to the village has been anything but satisfactory, very often being off. This I believe to be due to the want of pressure and size in the service pipe. Your Authority has drawn the attention of the Board's Officials to the fact and, if it is not remedied, pressure on the Board must be used to remedy this serious inconvenience.

The concentration of the whole of the sewage into one outfall pipe and the public supply of water to the houses, have increased the amount of sewage discharging into the beck at one spot. This and the want of rain to flush the beck has caused a nuisance. Your Authority at present have this matter in hand and will deal with it in such a manner as not to make the effluent damage the beck.

The scavenging of this village has been well done by the Contractor.

## WHITTON.

Census population 1099. Estimated population 1099. Births 48, birth rate 39·1. Deaths 19, death rate 17.

There is an increase of the population of this parish. The scavenging has been done well and the sewers have acted well. The County Council have drawn the attention of your Authority to the contamination of the beck by the sewers. This question is at present receiving the attention of your Authority, and I have no doubt will be remedied. The water supply at Carlton Ironworks is good from the Water Board, and the pumps in Whitton Village have a plentiful supply.

## EAGLESCLIFFE.

Census population 1240. Estimated population 1410.  
Births 32, birth rate 22·7. Deaths 29, death rate 20·5.

There is a steady increase of the population in this village. 15 new houses have been certified. There have been some complaints as to scavenging. Undoubtedly there has been some irregularity in the emptying of the Ash Closets, but the principal complaint has been regarding the character of refuse that the scavengers' duty is to remove. There was a complaint regarding the outfall sewer in Ashfield Avenue. The outlet into the river had given way. It was remedied but, should it give way again, I think it will need a more permanent method to resist the water of the river undermining it. On many inspections I never found the nuisance complained of. The streets at the junction are in course of construction and when finished will make the village clean and tidy. A public school is very much needed at the junction and I hope that the Educational Committee will quickly supply this urgent necessity.

The water supply from the Water Board has been good, and the lighting efficient. The death rate is high but only two of these deaths were from infectious diseases.

## AGRICULTURAL.

Census population 2586. Estimated population 2936.  
Births 81, birth rate 27·5. Deaths 39, death rate 13·2.

There has been a considerable increase in the population of this aggregated area principally in the villages of Preston and Hartburn; 26 cases of infectious disease were notified but only one death from Diphtheria occurred.

The drains and sewers in the different villages have acted well, and the pumps in those villages supplied by this source of water have been kept in good order and the water has been plentiful.

I have the honour to be,

Your obedient Servant,

J. W. BLANDFORD,

Medical Officer of Health.

## England and Wales, 1904.

Annual Birth-rates and Death-rates from the Seven  
Chief Epidemic Diseases.

	Annual Rates per 1,000 Living.			Infant Mortality Annual Death-rate of Infants under 1 year per 1,000 Births.
	Births.	Deaths from all Causes.	Deaths from Seven Chief Epidemic Diseases.	
England and Wales ...	27·9	16·2	1·94	146
Rural England & Wales	26·8	15·3	1·28	125
76 great towns... ..	29·1	17·2	2·49	160
142 smaller towns ...	27·5	15·6	2·02	154

# **ADMINISTRATIVE COUNTY of DURHAM.**

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## **Chief Vital Statistics for 1904,**

and their comparison with 1903, and the average of the  
ten years 1894-1903.

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Estimated population (1904)	...	801,100
" " (1903)	...	790,770

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	Annual rates per 1,000 population		Mean rates for 10 years
	1904	1903	1894-1903
Birth-rate ...	35·6	35·8	35·4
Death-rate...	18·3	17·7	18·0
Zymotic death-rate ...	2·59	2·01	2·20
Infant Mortality-rate (per 1,000 births) ...	162	161	164
Small-pox ...	0·03	0·03	0·006
Scarlet Fever ...	0·16	0·25	0·19
Diphtheria and Membranous Croup ...	0·29	0·29	0·17
" Fever " (Enteric and continued) ...	0·15	0·12	0·24
Measles ...	0·55	0·32	0·43
Whooping Cough ...	0·43	0·24	0·35
Diarrhœa ...	0·95	0·73	0·78
Enteritis, &c. ...	0·38	0·38	0·62
Phthisis ...	1·07	1·09	1·18
Other tubercular diseases ...	0·92	0·93	0·90
Respiratory diseases...	2·92	3·02	3·15

T. EUSTACE HILL,

10th January, 1905.

County Medical Officer of Health.

TABLE I.—STOCKTON RURAL DISTRICT (for whole District.)

Year.	Population estimated to middle of each year.	Births.		Total Deaths Registered in the District.			Total Deaths in Public Institutions in the District.	Deaths of Non-Registered Residents in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	Nett Deaths at all ages belonging to the District			
		Number.	Rate*	Under 1 year of Age.		At all Ages.				Number	Rate*	Number	* Rate
				Number	Rate per 1000 Births registered								
1	2	3	4	5	6	7	8	9	10	11	12	13	
1894	12,440	387	31.4	38	98.1	154	12.3	...	...	12	166	13.3	
1895	12,670	345	27.2	61	176.8	210	16.5	...	...	2	212	16.7	
1896	13,200	356	26.9	43	120.7	160	12.1	...	...	8	168	12.7	
1897	13,680	385	28.1	47	122.0	169	12.3	...	...	8	177	12.9	
1898	14,245	383	26.8	48	125.3	178	12.4	...	...	5	183	12.8	
1899	14,720	388	26.3	46	118.5	205	13.9	...	...	8	213	14.4	
1900	15,445	439	28.4	69	157.1	238	15.4	...	...	10	248	16.0	
1901	15,521	455	29.3	53	116.4	207	13.3	...	...	7	214	13.7	
1902	16,156	487	30.1	54	110.8	204	12.6	...	...	17	221	13.6	
1903	16,646	483	29.0	61	126.2	218	13.0	...	...	14	232	13.9	
Averages for years 1894-1903	14,472	410	28.3	52	127.1	194	13.3	...	...	9.1	203	14.0	
1904	17,446	507	29.1	44	86.7	251	14.3	2	2	9	258	14.7	

\* Rates in Columns 4, 8, and 13, calculated per 1000 of estimated population.

Area of District in acres (exclusive of area covered by water) ... 32,495.

Total population at all ages, 14,841; Number of inhabited houses, 2,919; Average number of persons per house, 5; (at Census of 1901.)

TABLE II.—STOCKTON RURAL DISTRICT.

Names of Localities	NORTON				BILLINGHAM				COWPEN				WOLVISTON				WHITTON				EGGLESCLIFFE				AGRICULTURAL			
	Year.	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages
1894 ...	3950	107	47	12	2770	98	29	9	1066	57	23	5	590	16	10	3	1091	39	15	2	920	24	8	2	2053	46	22	5
1895 ...	4025	98	62	15	2810	87	54	25	1066	40	23	6	590	16	13	1	1091	34	21	8	990	26	15	2	2098	44	22	4
1896 ...	4200	101	50	11	3000	103	46	20	1066	39	21	5	610	16	6	...	1091	28	12	3	1080	23	6	...	2153	46	19	4
1897 ...	4320	94	51	12	3190	116	37	19	1066	43	30	6	615	24	5	1	1091	30	11	3	1145	24	12	1	2253	54	23	5
1898 ...	4415	111	54	15	3365	95	40	12	1066	31	11	2	615	15	10	3	1091	33	18	8	1225	37	17	2	2468	61	23	6
1899 ...	4575	104	62	16	3510	115	45	12	1066	32	30	6	615	21	17	3	1161	36	19	3	1250	31	14	5	2543	49	28	1
1900 ...	4915	126	61	15	3650	131	81	35	1066	32	25	3	620	18	12	4	1246	43	22	5	1305	31	10	1	2633	58	29	6
1901 ...	4932	121	59	13	3786	134	46	11	1121	38	28	8	612	15	15	...	1099	51	18	9	1280	38	9	1	2691	58	32	11
1902 ...	5232	141	66	12	3991	137	47	18	1121	42	34	7	637	12	13	4	1099	46	16	5	1305	37	17	2	2771	72	28	6
1903 ...	5482	152	69	13	4116	149	63	26	1121	33	12	4	637	13	14	3	1099	46	26	10	1335	31	15	3	2856	59	33	2
Averages of years 1894 to 1903	4604	115.5	58.1	13.4	3418	116.5	48.8	18.7	1083	38.7	23.7	5.2	614	16.6	11.5	2.2	1115	38.6	17.8	5.6	1183	30.2	12.3	1.9	2451	54.7	25.9	5
1904 ...	5852	138	75	11	4381	150	67	12	1121	40	20	1	647	23	9	3	1099	43	19	4	1410	32	29	6	2936	81	39	7

DATE		DESCRIPTION		AMOUNT		BALANCE	
DAY	MONTH	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT
1	1						
2	1						
3	1						
4	1						
5	1						
6	1						
7	1						
8	1						
9	1						
10	1						
11	1						
12	1						
13	1						
14	1						
15	1						
16	1						
17	1						
18	1						
19	1						
20	1						
21	1						
22	1						
23	1						
24	1						
25	1						
26	1						
27	1						
28	1						
29	1						
30	1						
31	1						

TABLE III.—STOCKTON RURAL DISTRICT.  
CASES OF INFECTIOUS DISEASE notified during the Year, 1904.

NOTIFIABLE DISEASE	Cases Notified in Whole District							Total Cases notified in each Locality					Number of Cases Removed to Hospital from each Locality.								
	At all Ages	At Ages—Years						Norton	Billingham	Cowpen	Wobston	Whitton	Egglecliffe	Agricultural	Norton	Billingham	Cowpen	Wobston	Whitton	Egglecliffe	Agricultural
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards														
SMALL-POX	10	...	4	...	6	...	1	...	...	...	...	9	1	...	...	...	...	...	9		
DIPHTHERIA	47	15	22	5	4	1	33	3	1	...	2	8	3	...	...	...	...	...	1		
MEMBRANOUS CROUP	2	...	2	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...		
ERYSIPELAS	7	...	1	...	6	...	5	...	...	1	1	...	...	...	...	...	...	...	...		
SCARLET FEVER	98	3	19	66	9	1	81	4	...	...	7	6	15	...	...	...	...	4	2		
TYPHUS FEVER	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
ENTERIC FEVER	9	1	...	3	5	...	4	3	1	...	1	1	...	...	...	...	...	...	...		
PUERPERAL FEVER	1	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...		
Totals	174	3	35	95	17	23	124	11	1	1	2	9	26	18	2	...	...	4	12		

State the name of the isolation hospital, if any, used by the sick of the District—Stockton Sanatorium, Stockton.

TABLE IV.—STOCKTON RURAL DISTRICT.  
CAUSES OF, AND AGES AT, DEATH DURING YEAR 1904.

CAUSES OF DEATH	Deaths in or belonging to whole District at subjoined Ages						Deaths in or belonging to Localities (at all ages)						Total Deaths in Public Institutions in the District.		
	All Ages	Under 1 year	1 & under 5	5 & under 15	15 & under 25	25 & under 65	65 & upwards	Norton	Billingham	Cowpen	Wobston	Whitton		Egglecliffe	Agricultural
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Measles	13	3	9	1	...	...	...	10	2	...	1	...	...	...	...
Scarlet Fever	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...
Whooping-cough	6	2	3	1	...	...	...	2	1	...	2	1	...	...	...
Diphtheria & Membranous Croup	9	...	4	5	...	...	...	5	2	...	...	1	1	...	...
Enteric Fever	2	...	...	2	...	...	...	1	1	...	...	...	...	...	1
Epidemic Influenza	3	...	1	...	2	...	...	...	1	1	...	1	...	...	...
Diarrhoea	5	3	...	1	...	1	2	...	...	...	2	1	...	...	...
Puerperal Fever	1	...	...	...	1	...	...	...	...	...	1	...	...	...	...
Phthisis	16	...	...	5	11	...	5	3	...	1	2	3	2	...	...
Other Tubercular diseases	11	1	2	3	1	3	1	4	2	...	1	1	3	...	...
Cancer, Malignant disease	16	...	...	...	10	6	5	3	...	2	2	3	2	...	...
Bronchitis	11	4	3	...	2	2	1	4	4	...	1	1	...	...	...
Pneumonia	20	1	3	1	2	9	4	4	6	1	...	2	4	3	...
Alcoholism—Cirrhosis of liver	7	...	...	...	6	1	2	2	...	...	...	2	1	...	...
Premature Birth	10	10	...	...	...	...	3	3	1	...	...	1	2	...	...
Diseases and accidents of parturition	1	...	...	...	1	...	1	...	...	...	...	...	...	...	...
Heart Diseases	28	1	...	...	8	19	11	3	2	2	...	4	6	...	...
Accidents	10	...	...	1	1	5	3	1	3	5	...	1	...	...	...
Suicides	1	...	...	...	1	...	1	...	...	...	...	...	...	...	...
All other causes	87	19	11	3	3	26	25	29	21	4	3	6	5	19	...
All causes	258	44	37	16	14	85	62	75	67	20	9	19	29	39	2

1870

1871

1872

1873

1874

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