## Report on the sanitary condition of Gibraltar with reference to the epidemic cholera in 1865 / by Dr Sutherland.

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### REPORT

ON THE

## SANITARY CONDITION OF GIBRALTAR

WITH REFERENCE TO

#### THE EPIDEMIC CHOLERA

In the Year 1865.

BY DR. SUTHERLAND.

6 13 war office

Presented to both Mouses of Parliament by Command of Mer Majesty.

August 1867.



LONDON:

PRINTED BY GEORGE EDWARD EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY.

FOR HER MAJESTYS STATIONERY OFFICE.

1867.

19617.

REPORT

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#### REPORT

ON THE

# SANITARY CONDITION OF GIBRALTAR WITH REFERENCE TO THE EPIDEMIC CHOLERA,

IN THE YEAR 1865.

TO THE RIGHT HONOURABLE THE SECRETARY OF STATE FOR WAR.

In compliance with instructions directing me to proceed to Gibraltar to examine on the spot the local conditions under which cholera had manifested itself during the late epidemic, with the view of ascertaining whether additional experience obtained from it in any way modified those conclusions regarding improvement of the garrison at which Captain Galton and I had arrived in our "Report on the Sanitary Condition of the Mediterranean Stations:"—

I beg to state that before proceeding to hold the enquiry, I prepared and sent out statistical forms for obtaining an accurate record of the facts as they occurred, and of the sanitary state of barracks and houses at the time the disease appeared in them; that in September last I went to Gibraltar, and placed myself in communication with the military and civil authorities, and with medical officers, from all of whom I received every necessary assistance and information. I likewise examined on the spot the localities where the disease had been most severe, together with their present sanitary defects; and I shall now proceed to report the results of the inquiry.

I shall first give the mortality from cholera in 1865, together with an account of the

public health of the garrison before the cholera appeared.

I shall, in the next place, state facts regarding the earliest cholera cases in the 2d battalion 22d regiment, which left Malta for Gibraltar after cholera had broken out in Malta; and under this head I shall show the relation which existed between the Gibraltar epidemic and the disease in Spain.

I shall then give an account of the first cases in the garrison and town of Gibraltar, in comparison with the epidemic of 1860, including the distribution of the epidemic in

different districts and barracks.

This will be followed by an inquiry into the local predisposing causes of cholera with reference to the effect of these on the health of the 22d regiment and of the garrison. Under this head will be given a general statement as to the sanitary condition of the town, barracks, and prisons of Gibraltar. I shall next introduce a summary of facts regarding the cholera of 1865 to show what are the measures required for protecting the public health; and I shall conclude this report by giving the results of the inquiry in a practical form for use.

#### I.—MORTALITY FROM EPIDEMIC CHOLERA AT GIBRALTAR IN 1865.

The first case of cholera during the Gibraltar epidemic of 1865 appeared on the 18th July, the last case on the 27th October. The disease attacked all classes of the community—troops, civil inhabitants, and convicts.

community—troops, civil inhabitants, and convicts.

The records of the army medical department, Table I., give the mortality among

soldiers and their families as follows :-

1	-	301-1	Strength.	Cases,	Deaths.	15 AT 113
	Men - Women Children -	4 0	4,854 421 703	121 18 24	76 12 18	took place in these there were 336 des
0 4	Total	421	5,978	163	106	II.—Han

At the present time the police authorities perform duties connected with the registration of deaths among the civil population, and their return, Table II., gives the deaths from cholera, arranged according to districts to admit of comparison with the Population table, No. III.

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There are other two accounts of the mortality, one abstracted from the official return prepared by Deputy Inspector General Dr. Rutherford, Principal Medical Officer (Table IV). The other in Table V. was published in the Gibraltar Chronicle. The following abstract of deaths from cholera is derived from these three tables:—

Total fixed and floating	Chol	cra.	SANITARY
population 17,491	Cases.	Deaths.	
Police Return	_	408	
Principal Medical Officer's Return Gibraltar Chronicle	902 821	477 420	TOT

These very different accounts of the same event show that an improved registration of deaths is required.

The number of convicts employed on the rock, and the deaths among them, were :-

	crimow od	Cho	lera. —": EUCI	of the Mediterranean Sta
	Average Numbers.	Cases.	Deaths.	statistical forms for obta-
ile	850	79	54	that in September last il military and civil authori

The following abstract shows the proportions per 1,000 of attacks and deaths among all classes of the community.

lost chol	rs in 1855, togeth rs appeared. egarding the ear	Cholera po	er 1,000 of ation.	I shall erst give the public health of the garri I shall, in the next
r cholera luch exis	for Gi <del>nam</del> ar after w the relation w	Attacks.	Denths,	2d battalion 22d regimen in Malta; and moder th Gibraltar epideroic and t
ion and to loadion of ing causes tout and	Soldiers	24.9 42.7 34. 47. 93.	15.6 28.5 25.6 23.3 63.5	I shalt then give an acin comparison with the confiderent districts and bar This will be followed reference to the effect of

Out of an approximate aggregate population of 24,319 there were about 1,100 cases, and, on the lowest estimate, 568 deaths from cholera. The attacks were in the ratio of 45 per 1000 of the total population, and the death-rate was 23.3 per 1000, which if it had occurred among the inhabitants of the metropolis would have been represented by 46,000 epidemic deaths.

The sexes and ages of 408 deaths in the Police return are given in the following

manner (Table No. II.) :-

The disease existed in the garrison for about three months, but the maximum mortality took place in the latter end of September. During the last three weeks of this month there were 336 deaths from cholera, among all classes of the population.

#### II .- HEALTH OF THE POPULATION BEFORE THE APPEARANCE OF CHOLERA.

Up to the time when the epidemic appeared there was no great amount of diarrhoea among the troops; and Table XIV. shows that even after cholera prevailed attacks of diarrhoea did not always precede attacks of cholera in the same regiments and barracks; but as many unrecorded cases were treated while only the more important cases were registered, there are no means of ascertaining this point with accuracy.

The facts regarding the civil population deserve notice. Dr. Baggetto of the civil hospital states, that towards the middle of May 1865, two months before the first case of cholera appeared, he attended in his private practice a child with vomiting and violent diarrhoa, followed by great prostration, sunken eyes, and other alarming symptoms, not produced by fruits or by aliments of difficult digestion. Two of his own children were also similarly attacked without having committed any errors of diet.

About this same period choleraic cases of a similar character took place in Malta.

The civil medical practitioners charged with the medical relief of the poor afforded much useful information as to the state of health of this class before the epidemic appeared. But as all were agreed that the best statistical evidence on this subject would be derived from the records of the civil hospital, where gratuitous advice and medicine are given to out-patients, an abstract, including the principal gastric affections relieved during two years 1864–1865, was prepared at the hospital and is given in Table VI. The following is a summary of this table for the first seven months of each year preceding the month of August, on the 19th day of which month in 1865 the first case of cholera appeared among the civil population of the town:—

Months, January to July inclusive.	Dyspepsia.	Colic.	Diarrbea.	Dysentery.	Sickness or vomiting.	All other Diseases.
1864	446	268	252	47	116	8,525
1865	420	231	239	26	181	7,969

As it is the custom to register all applications, these numbers represent the visits of

out-patients for each class of diseases, and not necessarily new cases.

This table shows a slight increase of visceral affections in the earlier months of 1865, chiefly in May, June, and July of this year; there is nothing special in the facts, except the apparently large amount of gastric affections prevalent in Gibraltar at all times, and the probable influence of this state of health in predisposing people to attacks

of cholera during epidemic seasons.

But as we approach close to the appearance of cholera, indications of a change in the public health of the town become more distinct. Dr. Trenerry, physician to the Civil Hospital, has been kind enough to draw up a table showing the daily number of new cases of these gastric affections which presented themselves at the hospital for treatment during the month of August in the years 1864 and 1865. The following is an abstract for the first 18 days of the months in each year:—

	1864.	1865.
77	27	38
-	18	18
-	28	46
-	2	1
-	9	20
	84	123
	- WE	- 18 - 28 - 2 - 9

The numbers are rather small for the purposes of comparison, nevertheless it is a fact that the applicants for relief of these affections in 1865 exceeded by one-third the numbers during the same days in 1864.

As soon, however, as cholera appeared in the garrison, diarrhœa broke out all over the town, and Table VI. shows that the proportion of gastric cases among applicants at the

civil hospital rose immediately.

From returns made to the Government by civil medical practitioners, it appears that during August, September, and October, the epidemic months, they attended above

7,000 cases of diarrhœa.

Nearly every person on the rock appears to have suffered more or less from diarrhoa at one time or another. There are no means of ascertaining whether diarrhoa preceded cholera by a few days in the districts attacked, as is usually the case, but there is every reason to believe that it did so, and that the Gibraltar epidemic of 1865 was no exception to the general rule in this respect.

#### III.—HISTORY OF THE EPIDEMIC.

I shall now proceed to give some account of the epidemic itself, together with circumstances attending the appearance of the earliest cases.

Cholera in Arabia. The epidemic cholera of 1865 began in Arabia, during the Mahomedan pilgrimage, early in the month of May. The disease appears to have been preceded by a fatal form of typhus, which broke out among the inhabitants of Mecca, Medina, and Djedda in the spring of the year. And we know from official accounts that an epizootic disease was prevalent along the eastern shores of the Mediterranean at the same period. There is no reliable account of the public health in Egypt before cholera appeared there, but in Malta there was an unusual prevalence of gastric affections during the first six months of 1865. The mortality from typhus fever was double the average, as was also the mortality from gastro-enteritis, a disease attended by diarrheal and choleraic symptoms, and which eventually merged into cholera.

The epidemic was attended with great mortality in Arabia during the first three weeks of May. The first known case in Egypt took place at Suez on the 21st of the month. A case occurred among pilgrims near Alexandria on the 22d May. The carliest case in Alexandria itself took place among natives living with pilgrims on June 2d; and cholera appeared among the general population on June 12th.\* Two days afterwards, on the 14th, the fact was telegraphed to Malta, and on the same day

all arrivals from Egypt were placed in quarantine.†

While the disease was still confined to Arabia, and before the first case appeared in Egypt, a violent outburst of choleraic disease took place in the village of Birchircara, in Malta, two miles from Valletta. The attacks were at first reported as true cholera, but were not so. The first case took place on the 17th May, and cases continued to occur until the disease passed into true Asiatic cholera two months later. Three days after the outbreak at Birchircara, namely on the 20th May, a similar choleraic disease broke out among soldiers families in the Lazaretto at Malta. The symptoms were the same as those observed at Birchircara. They were sickness, vomiting, diarrhæa, cramps, coldness of skin followed by reaction. Next day, the 21st, the earliest known cases of cholera out of Arabia took place at Suez.

As already stated all vessels arriving from Egypt were placed in quarantine on and after the 14th June. At this date severe diarrhœa cases, followed at a later period by fatal cases of diarrhœa, and these by cholera, began to show themselves in the Ospizio

at Floriana.

Cholera in Malta.

The first case of diarrhoa, in a passenger from Egypt in the Lazaretto at Malta, took place on June 23d, and the first case of cholera was landed on the 28th from the "Wyvern." But before either of those dates, namely on June 20th, cholera had already broken out with great severity in the plague hospital among soldiers families who had been suffering for some time previously from diarrhoea, occasioned apparently by the very bad sanitary state of the quarters. This, the first outbreak of cholera in Malta, was exclusively confined to these families, with the exception of one fatal case in a man who was engaged in limewashing the buildings. "There is no proof of any communication between these cases and any previous source of infection. The outbreak was indigenous and local. It consisted of seven cases in the plague hospital, all except one of which proved fatal. The plague hospital where the cases occurred is one of the most unhealthy localities in Malta. It stands on an island in the Quarantine harbour. The nearest point at which passenger and mail boats from Egypt are anchored is between 500 and 600 yards distant. Before the establishment of quarantine, pilgrim ships would enter the great harbour and cast anchor about a mile from the plague hospital on the opposite side of Valletta altogether. On July 1st the families amongst whom these cases had occurred were removed to St. Salvatore counterguard below Floriana Barrack. The same afternoon six women who had been placed in the casemates at St. Salvatore were attacked, and on the 2d another woman was seized. The first case of cholera among the civil population took place on July 3d, in a woman living in Valletta; and on the 6th three soldiers children who had been removed from the plague hospital, and placed under canvas at St. Salvatore, were attacked.

2nd Regiient in Ialta.

The sanitary history of the 2nd battalion, 22nd regiment, in which the first cases of cholera occurred at Gibraltar, begins from this date. The regiment had been quartered at Pembroke Camp, three miles distant from Floriana, and appears to have been in good health. There was no cholera in the camp. The regiment was under orders for the Mauritius. It moved from Pembroke Camp on the 5th July. It marched

<sup>\*</sup> The principal facts and authorities will be found in my report "On the Sanitary Condition of Malta and "Gozo, with reference to the Epidemic Cholera in the year 1865." They were given to me officially, but Colluchi-Bey, president of the Egyptian Board of Health, states (Gazette Médicale, May 10, 1866), that the first case of cholera in Egypt took place on June 11th.

first case of cholera in Egypt took place on June 11th.

† There was another outbreak of cholera at the Mecca pilgrimage in 1866. Cases took place at Mecca, Medina, Djedda, and also in Egypt; but the disease did not take on the epidemic form in 1866 in these centres of the epidemic of 1865, although cholera prevailed over the northern and central districts of Europe as an epidemic in 1866.

through Floriana without passing near any locality where there was cholera, and embarked on board the "Orontes," which was lying off the hay wharf in the quarantine harbour. It was at one time thought that possibly the regiment might have become infected from having been embarked near a place where there was cholera or from a drain proceeding from the counterguard, which enters the harbour 200 yards or more from the place where the ship was moored. There had, no doubt, been cholera in the counterguard, but there had been no cases for three days before the regiment embarked, and moreover it never was near the counterguard.

The drain is a small opening under water, and Injury from the drain was impossible.

perfectly innocuous.

The first case of cholera in Pembroke Camp, where the 2d battalion, 22d regiment, had been stationed, took place in a woman on the 20th July. The first case in a soldier was on the 27th of the month. It will be seen that the regiment had left Malta a fortnight and three weeks before these occurrences.

It is important to remember certain almost contemporaneous events in Algeria indica-

tive of a western movement of the epidemic.

On July 10th, four days after the 22d regiment had sailed from Malta, two indigenous cases of cholera took place at Dellys on the coast of Algeria, above 500 miles west of Malta. One of these, which proved fatal, was in a Kabyle prisoner, who had been brought from Fort Napoleon in the interior. Two days later, on the 12th, another case took place in a European, 100 miles from Dellys, and quite in the interior of the country. Another fatal case took place on July 24th in a European workman, who was taken ill and died at Medeah, 60 miles S.W. of Algiers, after having passed the day of the 23d in Algiers where there was no cholera. Similar cases continued to occur from time to time over a large area of country before the epidemic appeared in force. On July 24th the first cases took place in Gozo.

These facts show that cholera was at this time appearing in detached indigenous cases over a large area of the southern Mediterranean scaboard, and that it was progressing

towards the West.

On the 6th July 1865, as already stated, the steam transport "Orontes" left Malta Cases in for Gibraltar, having on board the 2nd battalion of the 22nd regiment, together with 22nd Regiinvalids and time-expired men, besides women and children.

A number of cases, of chronic affections chiefly, were embarked among the invalids, but the only new case which occurred during the voyage was of heart disease, which proved fatal to one of the time-expired men. The ship is stated to have been com-

fortable and clean, and there were no complaints about the diet.

The 22nd came to Gibraltar in perfect health on the 10th, after a voyage of four days, and as the ship which was to take the regiment on to its destination at the Mauritius had not arrived, the men were landed and marched to the usual camping ground, on the North Front, outside the fortress, at 1,000 yards and upwards from the walls. With the exception of a single trifling case of diarrhoa, the regiment remained in perfect health after landing until the 18th, when a private, named Bird, presented himself to the medical officer about 9 o'clock at night, labouring under cholera, of which he died at about half-past 10 the following morning. It is not known whether this man had had any previous diarrhœa, but he was at parade at 7 o'clock of the evening of the same day, or two hours before he was seized with cholera. This was the first case of the Gibraltar epidemic of 1865.

Immediately after the occurrence of this case, on the morning of the 19th, the camp was broken up. The head-quarter wing, in which the case had occurred, was embarked on board the "Star of India" which had arrived from England. The ship was detained in the bay for 48 hours as a precautionary measure, after which delay she proceeded on

her voyage, every one on board appearing to be healthy.

The transport for the conveyance of the 2nd wing not having arrived, the troops were moved to a new camping ground on the east side of the North Front, close to the Mediterranean, and 400 yards further away from the garrison. Two cases of diarrhoa occurred among the men on this new ground, but otherwise they remained healthy until the 31st July, when a man named Davis, of intemperate habits, who had moreover been complaining for two days previously, was attacked with symptoms of cholera at 11 o'clock a.m. and died at 8 o'clock the same evening.

The transport "Devonport," for the conveyance of the 2nd wing, arrived from England on the afternoon of the 30th. On the death of the man Davis the troops were immediately put on board, and after a detention of 60 hours, the troops having remained in

perfect health in the interval, the vessel sailed for the Mauritius.

During the voyage there were five cases of diarrhoa on board the Star of India; and

Gibraltar.

two cases of diarrhoa on board the Devonport, besides two cases of diarrhoa embarked at Gibraltar. With the exception of these diarrhoa cases all of which recovered, both transports arrived at their destination without any choleraic disease. The outbreak of cholera in the 22nd regiment began and ended on the North front.

The "Orontes," which had brought the regiment from Malta, arrived at Gibraltar, as already stated, on the 10th July. She remained until the 14th, and having taken other invalids on board, she left for England on that date, carrying with her 83 time-expired

men, 91 invalids, 21 women, and 27 children.

After a voyage of six days she arrived in England on the 20th July, without having had any new case of sickness of any kind on board. This completes the history of the 22nd regiment, and of the transports which carried it.

First cases on the North Front.

I shall next proceed to state what took place after the 22nd regiment and all connected with it had left Gibraltar. Exactly underneath, and close to, the precipitous and vertical sides of the rock rising above the North Front, there is a sloping surface of rock, at the foot of which is constructed a range of inferior cottage dwellings of one floor. The ground is higher behind them than it is in front; there is no drainage, and the water supply is bad. There are cess-pits amongst the houses, which are, moreover, close to a large burial ground, and they are exposed to the effects of nuisances which I shall presently describe. In one of these cottages lived a corporal of the 15th regiment and his family. his family. This cottage is 800 yards distant from the camp, occupied by the 2nd wing of the 22nd regiment; the intervening ground is a sandy flat, exposed to sea breezes, but also to the nuisances above referred to. On the 3rd August, three days after the last fatal case in the 22nd, the corporal and a child aged four years were seized with cholera. The father died in 48 hours, and the child in 15 hours. A third attack occurred in another child of the same family. This case recovered.

There was no other case until six days later, the 9th August, when a woman belowing to the Royal Engineers inhabiting a cottage in the same locality, was attacked

longing to the Royal Engineers, inhabiting a cottage in the same locality, was attacked

and died in 56 hours.

First cases within the Garrison.

These six earlier cases all took place outside the garrison, and at some distance from Next day, the 10th of August, was marked by a sudden and violent outburst of the disease in the Grand Casemates, 800 yards distant from the preceding cases, and cut off from the locality where they had occurred by the huge intervening mass of the rock and works. Early in the morning a private living in one of these casemates was seized and died in eight hours. During the afternoon and night other seven cases, two of a very severe character, occurred in the same barrack, and curiously enough on the same day, the 10th, a child of a civilian was suddenly seized with cholera, and died on board a lighter in the harbour, 140 yards distant from the nearest point of the grand casemates, and nearly 1,000 yards from the cottages where the previous cases had taken place.

Three days afterwards, on the 14th, two cases occurred, one in a soldier of the Royal Engineers, inhabiting one of the North Front cottages, the other in the south district, in a child of a civilian, living a mile and a half away from the nearest of the preceding cases.

This case recovered.

On the 15th a fatal case occurred in a soldier in the North Front cottages.

On the 16th August two other cases occurred on the North Front, both in civilians: one fatal, in a native living at the limekiln; the other, which recovered, in a Spaniard living at the slaughter-house. On the same day a child in the North Front quarters was attacked.

On the 18th another fatal case occurred in the Grand Casemates.

These various localities are marked on map No. 1.

A question has been raised, as to whether the 22nd regiment did not bring cholera

Affected from Malta? localities in

Spain.

The answer, I am of opinion, is given by the mere facts of the case: There is the highest probability that if the 22nd regiment had never landed at Gibraltar, they would have shared the immunity of those left on board the "Orontes;" that there would have been no cholera among the men, and that it was because they were exposed to the unhealthy conditions about to be described that two of them died.

Moreover, there is every probability that cholera was already in Spain when the

22nd arrived, and that it was about to become epidemic.

I have endeavoured to obtain the precise dates officially of the appearance of the disease in the Peninsula, but without success. The Colonial Office at Gibraltar, however, placed at my disposal the "Gibraltar Chronicle" and other documents, from which the following particulars have been abstracted. But it must be borne in mind

that the cases in Spain took place at dates anterior to those given below. These are mostly the dates of publication.

Gibraltar, North Front (22nd Re- Carthagena Sept.	6
giment) July 18 Bariana	6
Gibraltar, North Front cottages - Aug. 3 Albicete	6
Valencia, Murcia, Alicante in Madrid ,,	6
suspicion - , 5 Barcelona† , , , , ,	6
Gibraltar Grand Casemates , 10 Six towns in Valencia - 10 ,	6
Valencia - , 12 Alcaniz (about 500 miles N.E. of	
Malaga and Seville (season type) - " 12 Gibraltar) "	6
Barcelona (sudden deaths from Cultera "	6
sporadic "colica") - 12 Jativa ,	6
Madrid, Valencia ,, 14 Caspe ,,	6
Gibraltar Town, 19   Several towns in La Mancha,	6
Cadiz , 23 Palma in Majorca - ,	6
Spanish cordon across neutral Many towns in Andalusia - "	6
ground - 24   St. Roque   50 - 50 - 50 - 50 - 50 - 50 - 50 - 50	12
Barcelona (cholera) ,, 25 Seville - III ,	15
Manzinares and - ind - ord - 1, 25 or on any gradit damping for any	

M. Didiot, principal physician of military hospitals, in his climatology of Marseilles, shows that long before any of these dates cholera had appeared in Marseilles, where on June 6th and 9th two cholera cases, one fatal, took place. The last case occurred two days before the arrival of the ship "Stella" from Alexandria, which was at one time supposed to have imported the disease into France.

We have seen that cholera had appeared sporadically in Algeria on the 10th of July. The disease began to assume an epidemic character in that country at the end of August. Cholera is also stated to have been in Ceuta on the African side of the

Straits before September 12th.

Making every allowance for difficulties in the way of obtaining correct information on such subjects in Spain, these facts published at the time are sufficient to show that before cholera was established in Gibraltar as an epidemic, the disease had already shown itself over many thousands of square miles of country, and that in reality it was nothing more than part of a cotemporaneous epidemic covering the eastern, central, and south-eastern districts of the Peninsula. It was in short part of the same great epidemic which destroyed multitudes of people in Asia, Europe, and Africa.

#### IV .- STATISTICAL DISTRIBUTION OF CHOLERA IN THE GARRISON.

#### a Distribution of the earlier Epidemic Cases.

In describing the epidemic as it occurred among the civil population, it is necessary to premise, that for municipal purposes the town is divided into districts, marked on the accompanying map, No. 2, and each district is subdivided into houses. But these houses are not necessarily separate occupancies. Under the designation are included buildings of various sizes, with or without inner courts (patios), inhabited by numerous families, and also single rooms built in line, the whole line being counted as one house. Bearing this in mind;—the first cases which occurred among the civil population of the town of Gibraltar happened on the 19th August. Three cases, all fatal, occurred on this day. One in district 17, house 14, in the centre of the town, about 800 yards from the grand casemates. Another in district 11, house 37, at some distance to the northward. The third in district 21, house 11. This district is contiguous on the east to district 17. On the same day a sapper in the Town Range barracks, on the side of the street opposite to district 21, was seized and died in a few hours.

On the 20th there were six new cases, which occurred at distant points from each other. One of these took place in the South barracks, a mile South of the town, in a soldier of the 23rd regiment. This man got diarrhœa on the 18th at the North Front.

<sup>\*</sup> The Minute book of the Gibraltar Board of Health has the following entry under date August 4th.—

"The Board took into consideration a communication from the Spanish authorities to the effect that arrivals

"from Valencia and its neighbourhood were subjected to a rigorous quarantine of observation, and decided

"that a quarantine of seven days be imposed on arrivals from thence having health on board." It thus appears that Valencia, 350 miles from Gibraltar, was placed in quarantine by Gibraltar at the instance of the Spanish authorities the day after the first case occurred in the town of Gibraltar.

The first case occurred in the town of Gibraltar.

<sup>†</sup> The following extract regarding Barcelona is taken from the same Minute book under date September 6th.—"A letter was read received from Her Majesty's Consul at Barcelona, dated 1st instant, informing the "Governor that although the deaths from cholera at that place amounted to 20 daily, yet the disease was "declared not to be epidemic, and clean bills of health were still issued." A reference to Tables IV. and V. will show that this considerable mortality at Barcelona was taking place a fortnight before cholera had arrived at its maximum at Gibraltar.

On the same day two fatal cases occurred in Portuguese, employed at the contractor's washing sheds on the North Front. A case, in a Spaniard who recovered, took place at the slaughter-house, North Front; and there were two fatal cases in houses 18 and 28, both in district 27, about 270 feet above the level of the sea. This district suffered greatly in the subsequent course of the epidemic.

On the 21st another fatal case occurred at the washing sheds; and there was a case,

also fatal, in district 24, house 41, at the southern extremity of the town.

A case occurred at 9 a.m. on the 22d, in the person of a very intemperate man of the 9th regiment, on board the transport ship "Renown," lying at the new mole. This man went on board on the 21st, at 6.15 a.m., and was engaged in getting in the baggage. He was removed immediately to the hospital, and died in a few hours. The wing of the regiment, which was in perfect health, had embarked on board the transport on the 21st, but at a date subsequent to the appearance of the epidemic in the town.

On the same day, the 22d, a case occurred in Buena Vista barracks, in the south district, at a considerable distance from any previous case. Another case happened in district 11, house 25, at the north end of the town, and a third at the Devil's Tower,

North Front. These cases all died.

On the 23d August there was no case among the troops, but there were no fewer than 12 cases, half of which proved fatal, among the civil population of the town and North Front. The town cases were-in district 27, house 11; district 14, house 37; district 7, house 11; district 11, house 25; district 25, house 61; district 24, house 2; district 14, house 19; and in district 19, house 9, there were two cases on this day. There were three cases on the North Front, one at the Commissariat sheds and two at the slaughter-house.

On the 24th a fatal case occurred in a soldier of the Royal Artillery in Moorish Castle barracks. Another in district 17, house 14, in a civilian, who died. Another, which

recovered, took place in a Portuguese at the North Front.

At this time the 78th Highlanders, who had disembarked from the "Windsor Castle" and "Renown" on the 15th and 17th August, were encamped at Windmill Hill, and on the 25th a case occurred in a soldier there. On the same day there were seven cases among civilians, two of which proved fatal. Four of these cases happened in district 24 (two in Gavinos' Asylum). One case occurred in district 19, another in district 14, and one in district 17.

On this day there was a fatal case in a child in the grand casemates. The 26th afforded seven cases amongst the civil population, five of which proved fatal. They occurred in districts 25, 19, and 17. In house 9 of district 19 three simultaneous cases occurred, and in house 7 two simultaneous cases. On the same day there was a fatal case in a child in Wellington Front.

On the 27th there were four cases, in districts 16, 19, 22, and 24. On the 28th there were six civilian cases, in districts 5, 15, 17, and 26.

On the 29th a case occurred in a soldier of the 15th regiment in King's Bastion. Another case occurred in district 3, another in district 5, and a fourth on the same day at Catelan Bay, on the opposite side of the rock altogether.

On the 30th a soldier of the Royal Artillery was seized in the Town Range barracks,

and on the same day there were three fatal cases in districts 22, 25, and 26.

On the 31st a case occurred in the 23d regiment in South barracks.

The earlier cases of the epidemic have been transferred to the accompanying map of Gibraltar No. I, which shows the locality and order of attack.

They were scattered over the garrison at irregular distances and times, following in

these respects the usual course of epidemic diseases.

There is no appearance of the disease having spread from any centre or centres, nor of its having been conveyed into the town in water from a well near the camp where

· Certain facts connected with the 9th regiment, and bearing on the history of cholera generally, were stated by Deputy Inspector-General Dr. Rutherford :

The first battalion of the 9th was quartered in King's Bastion, Wellington Front, and Town Range. The left wing embarked on the 19th August for the Cape, on board the "Windsor Castle," and arrived all well. On the same day, the 19th of August, cholera appeared in the town of Gibraltar.

On the 21st the head quarters' wing went on board the "Renown;" and the next day, the 22d, the third day after cholera was in the town, the fatal case of cholera referred to in the text took place. The transport day after cholera was in the town, the fatal case of cholera referred to in the text took place. The transport was hauled out into the bay and kept for 30 hours, and no subsequent case having occurred, she proceeded on her voyage. On the 5th September, a fortnight after the fatal case at Gibraltar, cholera broke out on board the "Renown," and lasted 14 days, till the 19th. It was fatal to the ship's surgeon, nine men, one woman, and several children. It is worthy of remark, that the period of outbreak on board corresponded to the period of maximum intensity of the epidemic in Gibraltar, although the "Renown" was at the time far on her voyage to the Cape. The left wing, which took its departure on the very day cholera broke out in the town, escaped. The head-quarters' wing, which left four days later, suffered.

† The map also shows the localities of all deaths from cholera on the north front, and in the south districts of the garrison. Map No. 2, shows the localities of all the civilian deaths in the town itself.

the first fatal case in 2nd battalion 22nd regiment occurred. Tables XII., XIV., and XV. which give the dates of death and the sources from which the sufferers had been supplied with water, show that there were 35 deaths from cholera among all classes of the population before a death occurred in a house, on August 27th, in which water from the north front camp well had been used.

There were outbreaks in certain localities of more than usual severity, but the history of these early cases shows that the epidemic of 1865 did not differ in its progress from

other epidemics of cholera.

It may be useful, before proceeding further, to compare the distribution of the earlier Epidemic cases of cholera in 1865 with the epidemic of 1860, the details of which for the civil of 1860. population are given in Table VII. prepared by the police authorities from their records.

The first case of this epidemic appeared on August 14th, 1860. The first cases among the civil population of Gibraltar in 1865 occurred on August 19th, and on both occasions a fatal case occurred in the same district, No. 21. The last case of the epidemic of 1860 occurred on November 30th in the same district, No. 21, where the disease began. The last case of the epidemic of 1865 took place on October 27th.

On the 15th August 1860 an outbreak took place in the Casemate barracks, and four soldiers were attacked. We have already seen that on the 10th August 1865 there were eight attacks in the same barracks. In both years the first cases among the troops

within the fortress occurred in the Casemated barracks.

The epidemic of 1860 began in the town, and broke out in the North Front on the 9th September. The epidemic of 1865 began at the North Front in the same cottages which were its earliest seat on the North Front in 1860, and afterwards attacked the town.

In 1860 the number of attacks and deaths was as follows :-

t force	Attacks.	Deaths.	both ou ove and
Soldiers	50	31	con odrack i EO.
Soldiers' wives and children	18	10	in a second distinguish
Civilians	68	36	Of Lornovan
Convicts	58°	13	
Total	194	90	mhive dieserten

<sup>\*</sup> Including choleraic diarrhoo.

The approximate total attacks among all classes in 1865 were about 1,100, and the total deaths at least 568.

The epidemic of 1860 was scattered over the town just as the earlier cases were in the epidemic of 1865. Both epidemics followed the same law of progress, modified however by the fact that the epidemic of 1865 was sevenfold more fatal than that of 1860.

Both epidemics attacked the same houses in the manner frequently observed in other unhealthy localities. In 1860, 27 dwelling houses in the town of Gibraltar yielded 35 fatal cases.

During the epidemic of 1865, there were 40 deaths from cholera in 17 of the same houses.

In 1860, in 18 houses there were cholera cases not fatal.

In 1865, eight of these houses yielded 14 deaths from cholera.

#### b. Distribution of Cholera among the Civil Population.

The next point of interest relates to the localities chiefly affected by the epidemic of 1865. The most correct index to these will be to take deaths rather than cases. People may differ as to the symptoms constituting cholera. The death is a fact. I shall show the distribution of this mortality first for the civil population.

Table VIII. prepared by the police gives the locality of every civilian cholera death, and Table IX. gives the deaths in each house. The following abstract of this table, if compared with Maps 1 and 2, will show exactly where the epidemic was localised among

В

the civil population.

19617.

The population of the districts has been added from Table III.

Districts	Population.	Deaths from Cholera.	Deaths per 1000.	Districts.	Population,	Deaths from Cholera.	Deaths per 1000.
North Front -	323	20	62	North (Town)	alce in cer	ref bito such	mout min
Catelan Bay -	401	2	5	Districts:	tools stood	women tele	on nonda 3
North (Town)	BUILDING NO		EL POUR IN	20	18	-	fits Total
Districts :				21	646	13	20
militare della con	126	2	16	22	424	9	21
five 5.2 Total	740	9	12	23	16	ni alulori	62
3	940	33	35	24	1066	29	27
4	149	2	13.4	25	1097	32	29
5	848	15	17.6	26	798	36	46
6	309	3	10	27	862	64	78
0091 17 sims	211	5	23.6	28	32	2	63
8	154	1000	No. of London	South Districts:	of differences	Janua V a	a house
9	234	6	25.6	1	337	5	15
10	266	2	7:5	2	179	madi Tours	D Dello Ver
TROUGHT WITH	656	16	24.3	pi kuma un m	769	14	ed 18
12	285	4	14	4	53	1	19
13	409	5	12-	5	110	5	36
14	609	14	23	6	212	2 3	9
15	365	8	21.9	7	123	3	24
16	473	8	17	8, 9, and 10.	238	10 = 10 R	1000
17	493	10	20	Lighters -	mo <del>se</del> ro o	4	olq - int
18	346	9	26	The state of the s	TO James		
19	446	15	33	Total	-	408	_

These death-rates for the town and south districts require some slight correction, which there are no means of applying. The population of the districts given in this table is the fixed resident population, amounting in all to 13,018 for the town of Gibraltar, and to 2,021 for the south districts of the garrison. But the alien floating population, whose dwelling-places are not fixed, amounted to 1,732 for the town, and to 96 for the south districts. On the other hand, many of this class fled from the garrison when cholera appeared. The numbers on which the death-rates are calculated for the North Front and Catelan Bay include the floating population.

The first result evident on the face of the table is, that the proportion of deaths to the population varied greatly in different districts of the town. The death-rates were in some districts 12 per 1000 and under, while in other districts they were as high as 20, 27, 33, 46, 63, and 78 per 1000. An apparently anomalous peculiarity of the epidemic was the fact of the death-rate being highest in the most elevated and exposed districts of

the town, while the lower districts comparatively escaped.

Effect of altitude.

Death rates

in divisions

of Gibraltar.

By grouping the districts approximately into zones of different altitudes we obtain the following death-rates for each altitude:—

ni bayrastle i reflicir pielded	Height in feet above mean watermark.	no.	Population.	Deaths from Cholera.	Deaths from Cholera per 1000.	Noth epider ber nubealth i filtal cases.
of the same	Under 30 30 to 150 150 to 250 and upwards	100	1842 7539 3673	33 171 149	17. 22.6 40.	During the susses. In 1850, in

These facts are sufficient to prove that altitude by itself is no protection against cholera, for during the late epidemic it is an unquestionable fact that the disease was most fatal in houses built on some of the best sites in the garrison. I shall afterwards show why this was the case.

The preceding table shows that the fixed and moveable civil population of the North Front was 323, and that the deaths from cholera amounted to 20, giving a death-rate of 62 per 1000.

The death-rate from cholera in the closely peopled town of Gibraltar itself, calculated

on fixed and floating population, was 27 per 1000.

In the south districts, with a fixed and floating population of 2,116, there were 29 deaths from cholera, a mortality of 13.7 per 1000. Half of this death-rate however occurred in one single district out of 10 where the population is most dense and the sanitary conditions unsatisfactory.

An important element in the history of epidemics is the proportion of deaths which takes place in each house. Table VIII. gives data of this class for 209 houses, but in

dealing with the facts it is necessary to repeat what has been already stated, namely that a "house" in Gibraltar usually includes several occupancies or families; bearing this in mind, the following abstract shows the distribution of cholera deaths in 1865 according to "houses."

Deaths per House.	One,	Two.	Three.	Four.	Five.	Six.	Seven.	Eight.	Ten.	Twelve,
Number of houses -	128	43	19	hablair o ni ho	5	3	on the v	nerg cent	17	ropins,

It thus appears that 61 per cent. of "houses" or groups of population attacked, yield one death each. Table VIII. shows that the number of deaths in each group depended to a certain extent on the number of population it contained, but it also shows that the mortality in groups was influenced by some other conditions besides the numbers of

population.

Table XII. contains data from which the deaths on each floor of all the "houses" can be deduced. But in order to estimate the value of the facts we should require to know the population on each floor, and also the position of houses with regard to sloping ground behind. Apart from all other exciting causes of cholera, it has long been known that damp stagnant air caused by immediate proximity of higher ground behind dwellings is a powerful predisposing cause of disease, and as the houses where most of the deaths took place in Gibraltar are built on rapidly sloping ground near the rock and across the natural fall of the drainage, the probabilities are that all the floors of houses in such situations, except the highest floors, are more or less affected by position.

Of 330 deaths, the table shows that 176 took place on ground floors, that 136 deaths occurred on 1st and 2nd floors, and that there were only 18 deaths in rooms above the 2nd floor.

#### c. Distribution of Cholera in Barracks.

I next proceed to give similar statistical data for the barracks.

The influence of each barrack on the amount of cholera among troops quartered in it cannot be precisely ascertained, because as soon as cholera appeared in the most unfavourable barracks the men were very properly camped out.

This course was followed with the troops in the Grand Casemates, Orange Bastion, and

King's Bastion.

The following table gives the occupation of the barracks in July 1865, together with the number of cases of diarrhea and cholera, and the mortality from cholera in each barrack from the beginning to the end of the epidemic. It will be seen that all the cholera cases which occurred in Orange Bastion and King's Bastion, the two worst barracks in the garrison, proved fatal.

			Epidem					
Name of Barrack,	Corps occupying each barrack in July 1865.	Strength in each barrack in July	Diar	rhœa.	Cholera.		Deaths from Cholera	
The state of the s	12 July 1000.	1865.	Cases.	Deaths.	Cases.	Deaths.	per 1000.	
Grand Casemates	2/15	613 7	15	T coon	11	3	4.3	
Do	R.A.	75 \$	cosSE m	invilla:	17 13	0	4.9	
Moorish Castle	R.A.	- 77.	23	1000	7	5	65	
Orange Bastion	R.A.	78	6	V Trong	5	5	65	
Prince Albert's Front	R.A.	102	15	Settle?	2	1	9	
King's Bastion	1/9	49	2	I TO AND ADD	4	4	71	
Wellington Front	1/9	412	10	I describe	7	5	12	
Gunner's Barrack	R.A.	12		1 -	2	-	-	
Town Range	1/9	102 }	19	1000	2	2	8	
Do	R.E.	127 5	and the same	Harden.	4.33		11200	
Hargrave's Barrack	R.E.	95	20	-	2	1	9	
Jumpers Bastion	R.A.	79	10	-	-	-	-	
South Barracks	4 B.R.A. 2/23	693	9	1 100	13	10	14	
Rosia Stone Barracks	R.A.	77	6	S TO S	4	1	13	
Buena Vista Barracks	2/23 & 32	276	29	-	8	4	14	
" Huts	86 & R.E.	252	12	1	4	4	16	
Windmill Hill Barrack	86	284	3	11 -17	4	2	7	
Europa Huts	2/23 & 32	378	16	00-02	10	8	21	
Defensible Barrack	R.A.	76 44	5	3500	MET.	005 300	2	
Brewery dc.	R.A. 86		3	diam'r.	1	1 Francis	-	
Windmill Hill Huts	86	62	00100		1	-	-	
CatelanBay	86	63	100	2 000	3	00 1	112	

The numbers in the table are too small to admit of their being used for any other than a very general comparison of the barracks with each other.

The death-rates are nevertheless in some instances very high.

Cholera was distributed over the barracks and hospital much in the same manner as it was in houses of the civil population. Table XIV. gives the localities of nearly all the cholera cases among troops in permanent buildings; we learn from it that the disease attacked the inmates of 73 barrack rooms, casemates, and wards, of this number 56 rooms, or 77 per cent. of the whole number, yielded a single case per room; 10 rooms had two cases each; six rooms had three cases and in one room there were four cases.

Out of 110 cases there were 70 among men occupying ground floor rooms. There

were 35 cases on first floors and five on a second floor.

#### d. Distribution of Cholera in Married Quarters.

The first fatal case of diarrhoa in a soldier's family took place in an infant a month old, at Windmill Hill huts, as early as June 3d, 1865. The next important case (which recovered) was that of a child above six years of age at the married quarters, Moorish Castle, on the 4th July. The next case was in a child a year old at King's Bastion on July 31st. Another case took place at Moorish Castle on August 1st. On August 4th and 5th there were two cases, one of which proved fatal in Wellington Front, and the other at the North Front. On the 10th August three cases took place in soldiers' wives in the Grand Casemates. On the same day there were seven cholera cases among the troops in this barrack. I have thought it desirable to show the relation in date between these early diarrhoa cases and the outbreak of cholera. As already stated, the first fatal case of cholera amongst the civil population within the garrison did not occur until the 19th August.

The earliest case of cholera in a soldier's family was on August 3d in one of the North Front cottages. There was another in the same locality on the 9th August and another on the 16th. The first cholera case in a soldier's family within the garrison was in the

Grand Casemates on August 30th.

After this date diarrhoa and cholera appeared in various classes of married quarters all over the rock. The last case of cholera occurred at Windmill Hill huts on

October 18th in a child, the case proved fatal next day.

The amount of diarrhoea and cholera in the principal groups of quarters is shown in the following abstract of table XV. But it is necessary to repeat here, that the tables only clude the more important cases of diarrhoa among soldiers and their families. A very arge number of cases were not recorded.

Married Quarters.			Dian	rhoca.	Cho	1577 898 020 64 F	
	Statted Quarters.		Cases.	Deaths.	Cases.	Deaths.	
	Moorish Castle Prince Albert's Front - North Front Hargrave's Barracks - King's Bastion - Crutchets Ramp Buena Vista Grand Casemates Wellington Front - Town Range Buena Vista Huts - Windmill Hill Barracks Windmill Hill Camp	-	37 - 1 - 1 - 3 - 9 - 1 - 11 - 2 - 5 - 2 - 9 - 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 -4 1 1 1 1 2 -1 -1 -1 -1	5 -3 1 1 -1 -2 1 1 1 1 1 1	and
	Europa Pass		6	i	- 2 - 2 - 1 -	2- -2 1-	- State

There are no means of ascertaining with sufficient accuracy the numbers of women and children in each class of quarters, so that the per-centages of cases and deaths cannot be

Table XV. shows the localities of cholera cases in each group of quarters. We learn from it that out of 23 rooms the particulars of which are given, 21 rooms yielded a

single case each, and that there were two rooms with two cases each.

As regards floors attacked the same table shows that all the cases with two or three exceptions took place on ground floors.

#### e. Distribution of Cholera among Convicts.

As already stated, the average number of convicts employed on the rock during the epidemic was 850, among whom there were 79 cases of cholera and 54 deaths. At the time of the outbreak these convicts were employed as labourers all over the rock and were seized after working in various places both affected and unaffected in the neighbourhood. A number of cases occurred also in the convict prison among prisoners and officers.

# V.—Local Predisposing Causes of Cholera. 1.—Sanitary Condition of the North Front.

The two first epidemic cases occurred, as we have seen, in soldiers of the 22nd regiment who left Malta on the 6th July on board the "Orontes." On that date the regiment embarked in perfect health, together with a number of time-expired men, invalids, women, and children. During the four days' voyage to Gibraltar there was only one new case of sickness on board (heart disease); the regiment disembarked and was encamped at Gibraltar on the 10th; at 9 o'clock p.m. of the 18th, eight days after disembarcation, and 12 days after the regiment had left Malta, the first fatal case of cholera occurred; next day, on the morning of the 19th, the wing in which the case happened was embarked and reached its destination, the Mauritius, without any further casualty; the other wing was on the same day moved to another camp; on the 31st July a fatal case occurred in it, whereupon this wing was also embarked and reached the Mauritius also without further casualty. We have seen that the disease was exclusively confined to men who had been encamped on the neutral ground, while not a single case took place among the other soldiers, women, and children who were carried in the same transport from Malta either during the voyage to Gibraltar or during their subsequent passage to England, and that the earliest cases of cholera among residents took place on the North Front 800 yards distant from the camp where the second fatal case happened. On making inquiry whether any direct communication could be traced between the case in camp and the first cases in the cottage, it was stated by one of the medical officers that he had been informed that certain blankets which had been sent away from the camp for the purpose of being destroyed had been kept by the sergeant who was attacked. The evidence of the fact was, however, indirect and unsatisfactory; it is nevertheless necessary that it should be stated here in order that its value, if it has any, may be estimated with reference to other facts about to be mentioned.

Let us next see, how far the occurrence of these earlier epidemic cases may not have

been dependent on the bad sanitary condition of the North Front.

The North Front is an area of nearly flat sandy ground raised only a few feet above the level of the sea, lying between the Bay of Gibraltar and the Mediterranean, and extending northward from the rock to the boundary of the neutral ground which intervenes between the North Front and the Spanish lines. Its length from south to north may be taken approximately at 1,000 yards, and its breadth from east to west is about the same.

Originally a sandy flat, lying between two seas, it was no doubt a healthy locality so far as regards subsoil and local position, and it has been in times past the chief camping ground of the garrison, and also of the civil population during severe epidemics. On these occasions it has always been found highly advantageous to remove to the North Front both troops and people from the close unhealthy barracks and houses within the garrison. No doubt it would be found so still, but whether it would be found similarly advantageous in its present sanitary condition, and while an epidemic constitution prevails, to place on it bodies of troops from a locality more healthy than itself is another question.

The state of the North Front appears, first, to have excited attention after the late epidemic of cholera, and since then an inquiry has been carried out by a special Board,

<sup>\*</sup> With reference to the opinion that pestilential diseases are transmissible by woollen fabrics, it may be interesting to insert the following facts from the "Third Report of the Commissioners appointed to enquire into the best means of preventing the pollution of rivers." After showing, that the annual amount of old woollen rags ("Shoddy") used in the manufacture of cloths &c., in the United Kingdom is about 74½ millions of pounds, of which 22½ millions of pounds are imported, the Commissioners say, "These woollen rags are "collected, packed in bales, and are imported from Russia, Egypt, Turkey, the entire area of Europe, India, "China, and in fact from all parts of the world where woollen garments are worn, and rags are produced and "can be collected. They come to Yorkshire from districts where plague, fever, small-pox, and loathsome skin "diseases extensively prevail. The bales are opened and the rags are sorted by human fingers before being "placed in machines which break up, tear, separate, and cleanseithe fibre for manufacturing uses. According "to the evidence we obtained, no disease has ever broken out amongst the persons who so manipulate these "old woollen rags." The "shoddy" trade has been in existence for half a century.

appointed by Lieut.-General Sir Richard Airey, K.C.B., the Governor, whose Report will be found in Appendix No. XVI. The result of this inquiry, together with the results of my own inspection, I now proceed to give. In doing this, it will be necessary to refer to the map in order that the facts in regard to the medical topography and water supply of the North Front may be more easily understood.

North Front nuisances, The North Front being the only available vacant ground belonging to the garrison has been used for a variety of purposes. A considerable and central area of the ground has been occupied by the garrison cemetery. Complaints have been made by the Sanitary Commissioners of Gibraltar (Appendix No. XVII) as to absence of proper regulations in the use of this cemetery, and at the time of the late epidemic, nuisance from it was complained of in affected cottages in the vicinity. To the east of the cemetery are the Commissariat cattle sheds, close to which are the slaughter-houses. To the north-west of the cemetery and between it and the margin of the bay are extensive manured and irrigated gardens of great importance to the garrison on account of their affording supplies of fresh vegetables; but these gardens interfere to some extent with the free circulation of pure air over the usual camping ground of the troops which lies between them and the bay.

The entire sea margin between high and low water close to the camping ground, and for a considerable distance along the bay, is covered with rotten sea-weed and other decaying refuse, giving off most offensive odours in warm weather, and as the camp is about 100 yards from the beach, the smell from it is sometimes a great nuisance. There are no drained latrines belonging to the camp. There are moveable latrine boxes placed in a building between the camp and the bay, and these are emptied into the water at a short distance from the shore. It is possible that in certain states of the wind and tide part of the matter may be carried back towards the shore, and may tend to increase

the nuisance arising from it.

It will afterwards be seen that there is considerable probability also that sewage matter from the public privy and grand casemate latrines discharged at the Waterport is carried by currents to the beach at the camping ground.

The North Front cottages where the first cholera cases took place are without drainage,

and had a common privy behind them, with a cesspit full of soil.

The slaughter-houses are paved with rough flags, laid with open joints; there is no ventilation; the yards are badly paved. From each slaughter-house there is a large open drain built of thin bricks, apparently laid in sand, with joints open, loose, and absorbent; these drains terminate on the sand at a considerable distance above highwater mark, and the blood, offal, and animal excrement, which is but partially washed down the drains, find a lodgment in the sand, and decompose under the burning sun.

Close to the slaughter-houses are dilapidated sheds where tripe is made. The paving of the yard is bad, and there is a well in it for supplying the requisite water. The smell of this place when visited by the Board of Inquiry was so horrible that the members of

the Board could not remain in it.

Certain private cattle sheds in the immediate vicinity of the slaughter-houses are also

in a very bad and unhealthy condition.

All along the space which lies between these buildings and the sea (the Mediterranean) enormous quantities of bones, offal, and dead animals are constantly buried and exhumed at regular intervals for sale or exportation; the practice gives rise at all times to so much nuisance that equestrians and others are compelled to keep away from the neighbourhood. When the bones are exhumed in hot weather, or during easterly winds, the smell near the spot is unbearable, and is distinctly perceptible across the whole width of the peninsula. Quantities of bones were likewise found in the gardens close to the first camping ground of the 22nd regiment.

Close to the cemetery, and near the centre of the North Front, are two wooden huts used by a contractor who washes the bedding of the troops. Water for this purpose is obtained from wells; but the water after having been used for washing, instead of being drained away, is passed into an open pit in the cemetery. This pit is 50 feet long, 6 feet broad, and 3½ feet deep. The pit was found running over, and saturating the ground to a considerable distance. Large quantities of gas were disengaged from its surface, and the smell of it was sensibly felt a long way to leeward. In the same locality there is a space for washing tents, and all the foul water is thrown away on the

surface to evaporate or sink into the soil.

The state of the inundation between the North Front and the works also requires notice. For a number of years this water area has gradually become shallowed by dust and sand blown from the roads and North Front, and when the water is unusually low there is a nuisance from it. A shallow expanse of stagnant brackish water is a not

unlikely source of malaria; and among other improvements it is desirable that the inundation should be cleared out, so as to ensure a sufficient depth of water over its bed.

A fact worthy of notice, bearing on the sanitary condition of the North Front, was stated by the medical officer in charge at the time it occurred. In the bay, at no great distance from the first camping ground occupied by the 22nd regiment, there was at the time a wreck in the process of being broken up. It appears to have been in a bad, rotten condition, and the smell from it frequently reached the shore and passed over the camping ground.

At the latter end of August or beginning of September 1865, a month or more after the 22nd regiment had left the North Front altogether, three Portuguese, who were at work breaking up the wreck, sleeping on shore at night under any shelter they could find, were seized with cholera, and two died. About the same time a man was found lying in the open air in the same locality, near the Spanish lines, ill of cholera.

A reference to the map No. 1 will show the relative position of the camps and

cottages where cholera appeared and these various sources of unhealthiness.

It has been already stated that out of a total civilian population of 323, located in the miserable cottages on the North Front, 20 died. A reference to Table VIII will show that 16 out of these 20 deaths took place in cottages at the Commissariat, washing and cattle sheds, at the slaughter-houses and Devil's Tower, all in the immediate vicinity of the nuisances described above.

The facts now stated are sufficient to show how easy it is to bestow on a healthy area of ground conditions of unhealthiness similar to those found in densely peopled, uncared-

for, town districts.

Besides these various sources of atmospheric impurity well known to be of the highest Condition of importance when cholera is about to appear, both troops and civil population were Water Supply. supplied with bad water.

In the "Report on the Sanitary Condition of the Mediterranean Stations" attention was called to the unwholesome quality of water drawn from the North Front wells. There

are 19 of these wells, most of them in use for certain purposes.

The particulars in regard to them are given in Appendix X; and there are four wells,

Nos. 1, 2, 3, and 4 in the table, which are of special importance in this inquiry.

As soon as cholera appeared in the 22nd regiment suspicions were excited as to the quality of the water the men had been using, and steps were taken, by an examination of the wells, to ascertain how far this water might have occasioned the attacks.

A reference to plan No. 3, will show the relation of the camping ground occupied by the 22nd regiment to the water-supply for the troops, and also to the unwholesome

sea-beach already referred to.

All the North Front wells are dug in the same loose sandy subsoil. They differ only

in their distance from the sea-margin and in their relation to the sea-level.

Well No. 1 is 200 yards from the high-water line. The level of its bottom is two inches below mean water-level. The usual depth of water in it is 1 foot 9 inches. Water from this well is carted into Gibraltar for the use of the civil population.

Well No. 2 is 150 yards from the sea-line. Its bottom is level with mean-water, and the depth of water in it is 1 foot 9 inches. This well is exclusively used by troops in camp, and from it the 22nd regiment derived its supply at the time of the cholera.

No. 3 well is 80 yards from the sea. Its bottom is 16 inches below mean-water level. The depth of water in it is 2 feet. The water is raised by pumping-machinery into a tank, from which it is conveyed by a pipe along the watering jetty for the supply of the

Well No. 4 (Plan No. 1) is 83 yards from the beach; the depth of water in it is 3 feet 4 inches, and its bottom is 3 feet 2 inches below high-water level. The water from

this well is carted into Gibraltar for the supply of the troops there.

The rise and fall of the tides in the bay is from 3 to 4 feet, and hence it follows that at every rise of the tide the level of the sea is 25 inches above the bottom of well No. 1, which supplies the civil population. It is 24 inches above the bottom of well No. 2, which supplies the troops in camp; it is 3 feet 4 inches above the bottom of well No. 3, from which the shipping is supplied, and 3 feet 4 inches above the bottom of well No. 4, from which water is carted to the troops in Gibraltar.

A reference to the table will show that all these North Front wells are sunk below high-water level in the bay, and that the surface of the water in the wells varies from a few inches to little more than a foot above the level of high water. In one instance, that of well No. 3, which affords water for shipping, high-water level is actually 19 inches

above the surface of the water in the well.

The only sources from which these wells can derive their water is from rainfall filtering through the sand vertically, or from sea-water filtering into the sand horizontally, after having passed through putrid refuse matters lying all along the beach.

The outbreak of cholera in the 22nd regiment led to an analysis being made of well No. 2 about a week after the first fatal case occurred in the regiment. The following is the result of this analysis, made by Staff-Surgeon Barrow :-

				Gr	ains per gallon.
Chloride of sodium -	-	-	-	-	20:99
Carbonate of lime		limited :	a June A	-	11 · 55
Other lime salts, princip	ally sulpha	tes and c	hlorides	-	5 · 23
Salts of magnesia, princi			carbonate	-	2 · 90
Organic matter (probabl		e)	-	-	3 · 24
Free carbonic acid (cubi	c inches)	- Irani	antes off	-	2 · 40

Dr. Barrow makes the following remarks on the quality of the water:- "Being " brackish, and containing so large a quantity of mineral and organic matter, the water, " if drunk, is particularly liable to cause dyspepsia and headache, uneasiness or actual " pain in the stomach, cramps, vomiting, and diarrhoea; and, in fact, it is quite unfit for " consumption, and should never be used unless purified." "None of the processes " remove the excessive quantity of salt, which would always render it injudicious to use " the water while other could be procured."

The quality of water from the adjacent well, No. 3, has also been brought under consideration since the Gibraltar epidemic by the following occurrences (Appendix XI. B.):-

On the 5th of June 1866, nearly 10 months after the cholera deaths in the 22nd regiment, and seven months after the last case of cholera in Gibraltar, the Peninsular and Oriental Company's steamer "Poonah," having left Alexandria for Southampton on the 28th May, took a supply of water on board at Gibraltar, which was sent to the ship in casks by the company's agent there.

With this water two iron tanks in the fore-part of the steamer, each capable of containing

1,200 gallons, were filled.

During the voyage from Gibraltar to England this water was used by the whole of

the crew and by the second-class passengers, in number 118 persons.

On the 9th June, while the vessel was in the English Channel, one of the ship's firemen, a delicate, weakly man, was taken ill early in the morning, after having drunk copiously of the water on coming up heated from the engine-room. This man died of cholera the same day.

Another firemen, who had not complained to the surgeon before arriving at Southampton, was reported to have suffered from severe diarrhœa after arrival. He got medicine from a druggist, but continued his work till the afternoon of the 13th, at which time he went home to see a sick child; remained there and died on the 19th, of cholera. Some others of the firemen had suffered slightly from relaxation of the bowels, but there were no more cholera cases.

These occurrences led to an inquiry as to the quality of the water which the men had used, and an analysis of samples taken from the well, made by Professor Taylor of Guy's Hospital, whose report I have seen, gave the following general results:-

Grains per gallon.\* Mineral matter fixed at a red heat, consisting chiefly of 37.6 carbonates of lime and magnesia and common salt Organic matter and matter volatile at a red heat -5.4 43.

When the bottle containing the water was opened it gave out an offensive smell, mostly due to the escape of sulphuretted hydrogen gas. The water was of a slightly yellowish colour, and somewhat opalescent. It deposited very little mechanical

When distilled the product had lost the sulphuretted hydrogen, but retained an

offensive odour resembling that of decomposed sewage.

This water is believed to have been wholly or partly drawn from the tank above ground

already mentioned, into which water is raised by pumping from well No. 3.

After the cholera had appeared on board the "Poonah" samples of water from all the wells, Nos. 1, 2, and 3, were sent from Gibraltar to Woolwich for analysis by Mr. Abel, and his report, (Appendix XI) dated October 13th, 1866, gives the following numerical results, in grains per gallon :-

<sup>\*</sup> An independent examination made by Dr. Parkes, professor of hygiène at the Army Medical School, Netley, agrees closely with Dr. Taylor's analysis.

egnitime data attaw day	S III	I.	II.	III.	The Street of
Total dissolved constituents	romic Meric	26.	41.	47	ofidita sta
Carbonate of lime	-	11'14	9.64	10.94	Chile Six our
Sulphate of lime -	0.00	4.08	8'16	9.20	orla umin-
Nitrate of lime	-	1.75	1:75	2.00	
Carbonate of magnesia -	-	6.30	5.77	7.87	The state of the
Chloride of sodium -	-	10.63	13.10	14.16	Ditto , Ditto
Organic matter	-	1:50	2.00	2.10	Mary to the
Hardness—Clark's test -	-	23°	26°	30°	Day Sales

The analyses made by different chemists differ from each other. The difference is probably due in part to the season when water was taken from the wells, which might influence the amount of rain-water in the sand, partly to the tides, and partly to the demand which may have been made on the wells for water, at the time samples

Mr. Abel's analyses show clearly that the relative distance of the wells from the sea and the relative level of the bottom of each well with regard to the tide level in the bay have an important influence on the quality of the water. They show that sea-water, containing more or less dissolved organic matter probably derived from the foul beach, finds its way through the sand and mixes in varying proportions with water proceeding from rainfall, according to the level of the water in the wells and their respective distances from the tidal line.

The position of all the wells is bad. The water supplied by all of them is impure, variable in quality, and not to be depended on, so much so that the use of water from any of these wells can only be justified on the plea that no better water is available, and there can, I conceive, be no doubt that any of them would be dangerous to health if used during an epidemic period. This danger would be increased if the water were kept until decomposition had begun, for Dr. Taylor's report shows that under such circumstances water from the well nearest the sea, and from which the "Poonah" was supplied, becomes a species of diluted sewage.

In so far as concerns the local predisposing causes of cholera at the North Front, the Summary of facts, whether as regards troops or civil population, have differed in no respect from local causes.

those usually observed during similar outbreaks of this disease elsewhere.

There was atmospheric impurity from nuisances on land and along the sea-beach, from filthy unregulated slaughter houses, cattle sheds, tripe houses, decomposing bones, and carcases of animals. An unregulated burial ground, want of drainage, cesspits close to the affected cottages, bad water, and an epidemic constitution prevailing all over the Mediterranean countries. The predisposing elements of disease were present. They manifested themselves in the usual manner, and destroyed life both among the troops and civil population.

#### 2.—Sanitary Condition of Houses where Deaths from Cholera took place in the Town of Gibraltar.

I have already described the general distribution of epidemic cases among the civil population, and shall next proceed to analyse in detail facts regarding the sanitary condition of dwelling houses, obtained partly by inspection, partly from the Returns, Appendix XII.

As already stated the late epidemic at Gibraltar presented the apparent anomaly of Causes of being most intense and fatal among the highest levels of the town, while the lower high death-

levels comparatively escaped.

These higher levels, besides being covered with a very inferior class of cottage property, crowded by a poor population, are most deficient in sanitary arrangements.

The lines of houses are generally built street over street, from the level of the sea up to an elevation of nearly 300 feet on the steep side of the rock, across the natural fall of the drainage; and many are constructed on narrow terraces, or rather steps, in such a way that the entire line of back wall is either built against a vertical section of earth or rock, or the rock itself forms the wall.

The structural defects of this class of houses are shown in the ground plan, No. 4, prepared by Mr. Roberts, Assistant Surveyor, of part of district 27, where cholera was

most severe and fatal.

The houses numbered in the plan contain a population of about 200 persons, of whom 27 died of cholera. The ground plan shows great crowding of houses on surface area,

greatest altitudes. narrow passages, obstructed at the ends by cross walls and buildings, and by a large common privy at A for the entire population of both sexes.

This is a hole over an open drain, communicating directly with steep lines of sewers, up which sewer air rises from the lower districts of the town, and the smell from it is

perceptible 30 or 40 yards away.

The plan shows simply the arrangement of buildings, but their relation to adjoining levels will be better estimated from the cross section, showing the slope of ground, and the manner in which the lines of houses are disposed in reference to it. The section is drawn to scale, and gives an excellent idea of the way in which most of the houses and patios along the higher levels, where cholera was most fatal, are more or less arranged with respect to the sloping ground in their vicinity. Making every allowance for other sanitary defects in these higher districts, there can, in my opinion, be no doubt that the relation of many buildings to the hill slopes above has exerted a powerful influence in predisposing their inhabitants to cholera.

During epidemics of cholera, even in the cooler climate of Great Britain, there have been many instances of the disease appearing by preference in houses similarly situated.

Damp walls and floors, and malaria arising from these, have in such cases acted as determining causes of local outbreaks. In a town like Gibraltar, where nothing had yet been done to improve its sanitary condition before the epidemic of 1865 appeared, the whole population was more or less exposed to the same sanitary defects; but the one special defect, which was mainly confined to the higher districts, was the nature of the house property and the manner in which the ground had been built on. Much, no doubt, may be done to improve the sanitary condition of even the worst of these houses, but they will always be liable to epidemics from their structure and their position with reference to the higher ground.

Notwithstanding these natural disadvantages of sloping ground, such ground can be built on with safety, provided all buildings be kept at a distance from sections of rock, or of earth, sufficient (say 20 feet) to admit of free ventilation between the back wall and the higher ground, so as to cut off damp and malaria. Care must also be

taken to divert all water from the higher levels from the sites of houses.

A comparison of these obvious principles with those on which the houses shown on Plan 4 have been built will enable any one to estimate the probable effect of this element of bad local position on the intensity of cholera in those districts.

Predisposing causes of cholera in the Town. I shall next proceed to give a brief abstract of the other predisposing causes of disease brought out by this inquiry as these exist more or less among the entire civil

population of the town.

In discussing this part of the subject with medical officers of districts, there was a general concurrence of opinion in regard to the following as being among the more prominent predisposing causes of epidemic attacks. Overcrowding, bad water supply, bad drainage, cesspits, dirty houses, dirty habits, spirit drinking, in reference to which it was stated that cholera had carried off all the worst drunkards.

Return No. XII., filled up by the police from forms sent to them for the purpose, gives the sanitary condition of every house where deaths from cholera occurred, and I

shall select from it the chief data of a practical kind bearing on the subject.

In the "Report on the Sanitary Condition of the Mediterranean Stations" it was shown not only that the state of the sewerage was most dangerous to health, but that the entire front of the town, including the line wall barracks, from the Waterport southwards, was exposed to malaria from the decomposition of sewage thrown into shallow sea-water within the breakwater directly outside the line wall, by numerous badly arranged sewer outlets. Besides this evil there is another of great magnitude. Close to the Waterport are the markets of the town, to which there is continual influx of people, for whose accommodation a public privy is provided, the soil from which passes directly into the small harbour to the north of the Devil's Tongue battery. Into the same place the latrines of the grand casemates likewise discharge their contents. The foul matter is carried from this point to the northward and has polluted the shore to a considerable distance. It is stated that this nuisance extends even as far as the usual camping ground on the North Front.

Nuisance from the breakwater was experienced in the barracks within the line wall during the cholera, and recently cases of fever of a bilious remittent type are said to have shown themselves among the civil population in the vicinity. One case proved fatal

A fatal case of fever has also recently occurred in an officer who had been on duty at the Waterport guard, not without suspicion of having been aggravated by this

nuisance. These recent occurrences are sufficient to show in how precarious a state the public health is at the present time, on account of the condition of the drainage outlets.

On looking at Plan No. 2 it appears as if the mortality from cholera had been chiefly State of confined to the lines of main sewers and drains. We learn from Table XII. that Sewerage. 268 deaths from cholera took place in drained streets and courts, and that there were

only 26 deaths in undrained streets and courts.

These figures taken by themselves would lead to error, because most of the streets and courts have been drained in one way or another. It is however certain from the facts that the drainage of the town, such as it is, has not only been of no advantage but has been of great injury to the public health. In the report already referred to, the dangerous character of existing drainage works was pointed out, and an examination recently made has proved that the statements in that report were perfectly warranted by the facts. The present sewerage of the town was commenced in 1815, at a period when little was known of the principles on which towns should be drained. The sewers are of very large dimensions, generally they have flat bottoms, their construction is of the roughest character, and sometimes no mortar is used for the purpose; there has been no attempt at uniformity of fall; some lines are laid almost horizontally, while in others the fall is excessive; sometimes the cover of the sewer is open and allows foul gases to escape; no means of flushing were provided, and some of the sewers were found loaded with deposit, except where the house drains were choked up and retained the foul matter in them, so as to keep it out of the sewers.

The house drains are even worse than sewers with which they communicate for they are nothing but cesspits opening into the patios by gratings, privies, or sinks. In most instances the patios are entered by a small door, shut at night, and as the patios are rarely more than four or five yards square, and as the only ventilation of the rooms is from the patios, the entire drainage system of the town appears almost to

have been specially contrived to supply the houses with sewer air.

On Plan 5 (A) are given sketch sections of existing sewers, and also a sketch

of the manner in which the present drainage system pollutes the air of the patios.

The experience of the late epidemic has afforded disastrous evidence as to the influence of this special cause in increasing the severity of cholera, and has justified, if any justification had been required, the decision come to by the Sanitary Commissioners of Gibraltar, that the existing sewers and drains must be destroyed, and the whole system relaid on sound principles, so as to collect and convey away the town sewage to a safe outlet in the bay.

Until this great improvement is completed in combination with an improved water supply, the health of the garrison will be at the mercy of any epidemic which may

happen to be in the air.

The surface paving of courts, patios, and other places where cholera prevailed, when Paving.

compared with the mortality, gives the following results :-

There were 124 deaths in places where the paving was bad. There were 165 deaths where the paving was indifferent, and there were only eight deaths in localities where the paving was good.

There is power in the new Order in Council, issued after the presentation of the "Report on the Sanitary Condition of the Mediterranean Stations," already referred to, to enable the Commissioners to enter on premises and enforce improvements in paving, and no doubt this will be done. The general paving of the town itself still admits of improvement in many points.

One of the greatest difficulties in Gibraltar is how to obtain a sufficient water supply. Condition of This question was fully discussed in the "Report on the Sanitary Condition of the the Water Mediterranean Stations," and analyses by Mr. Abel were given of the various classes supply.

of water used by troops and civil population.

The same sources were in use during the late epidemic of cholera, and it may not be out of place to copy the analyses from that report, premising, however, that as these chemical examinations were made on specimens of water collected during the rainy season, they show less impurity than existed during the dry season when cholera prevailed.\* The amounts of impurity are given in grains per gallon:—

<sup>\*</sup> The importance of this point may be estimated from the fact shown in Table I, that during July, August, and September, when cholera prevailed (except on the 30th September) rain fell on four days only, and the total quantity was '097 of an inch, insufficient to lay the dust. On the 30th September there fell I '397 inch, an amount still insufficient to improve the water supply. On October 10th, 3'300 inches fell, and the epidemic rapidly declined and ceased on the 27th, after several showers amounting to an addition of about 24 inches had fallen. Similar coincidences of increase of rain and disappearance of cholera have been frequently observed. C 2

to cut halo, politioner, orly to improve	Neutral Ground Well.	Aqueduct Water.	Tank Water.	Town Well Water.
Sulphate of lime	4*56	12:49	1.55	15:16
Nitrate ,,	6.22	16:01	0.83	49.63
Carbonate	12.24	17.04	0.94	-
Carbonate of magnesia	5.67	15.27	36.33	10.98
Nitrate ,	le marie nue	and a second	100	7:11
Alkaline chlorides (sodium and potassium)	7.48	28 - 59	3.59	80.24
Organic matter	4.06	9.94	5.02	7.70
Ammonia	Slight trace.	Slight trace.	Trace.	Slighttrace.
Total	40.23	99.34	48.26	170.82

The sources and quality of water made use of in infected houses are given in Table XII. A considerable proportion of the houses are supplied from rain-water tanks into which the roof-water passes without being filtered. There were 137 deaths from cholera in houses supplied in this manner. In a number of instances the tank water is described as bad. There were 88 deaths in houses supplied from the wells at the Ragged Staff. The quality of water yielded by these wells is probably similar to that of the aqueduct water in the preceding table, as both are derived from a similar source, namely, the subsoil of the Alameda. There were 65 deaths in houses supplied from the North Front wells, the chemical condition of which is given in the preceding table, and also in the table at page 13. There were thus 153 deaths in houses supplied by water from unwholesome sources.

The sensible qualities of the water in each house at the date of attack are given in Table XII, from which it appears that 177 deaths took place where the water appeared to be good, and there were 112 deaths in houses where the water tasted badly or was muddy.

In cases where there are no water tanks, or where the tankage is insufficient, water is carried from the wells in barrels over the town, and up the steep ramps to the highest levels, where it is sold to the poor at the rate of about seven gallons for a penny. One consequence of this condition of the water supply is that the poor use the same water for several purposes in succession.

Under such circumstances, it need excite no surprise that there were 234 deaths from cholera in houses where the water was insufficient in quantity. There were 48 deaths where the water supply was considered sufficient. It will be presently shown that none of the privies (with one solitary exception) in houses where deaths from cholera took place were supplied with water for flushing.

There is sufficient evidence that bad and insufficient water supply was one cause of the

severity of the disease.

General Sanitary condition of houses. As regards the influence of general sanitary condition on the mortality, the same Return shows that there were 112 deaths in courts (patios), lanes, or streets, of which the sanitary condition was bad. There were 174 deaths where this condition was indifferent, and only nine deaths where it was good.

Nuisance generally was complained of at the times of attack in houses where 136 persons died of cholera. There were 16 deaths in houses where no nuisance existed,

and in 145 cases the facts could not be ascertained.

House drainage. The results of house drainage were as unsatisfactory to health as those of the general sewerage of the town. There were 242 deaths from cholera in drained patios and houses, and 52 deaths where there were no house drains.

Generally there are open sinks and gullies in the patios or close to the houses.

There were 197 deaths in patios and houses supplied with sinks, and there were 14 deaths in cases where there were no sinks. Smells from sinks were complained of in patios and houses where 191 persons died of cholera.

The privy accommodation is as a rule extremely bad, and dangerous to health. It consists partly of open sinks down which cesspool matter is thrown, partly of open common privies over drains loaded with filth, and in some cases there is no privy accommodation.

As already stated, sewer air pours up these open sinks and privies into the small confined courts of the houses, and in all the higher districts privies among the houses, as shown on plan 5 ( $\Lambda$ ), are literally the open ends of ventilating shafts of the lower level sewers.

In some cases where there is no drainage the privy soil is accumulated in large deep pits above houses, which are lower down in the slopes.

In patios or houses supplied with privy accommodation of these kinds there were 286 deaths from cholera, and there were 8 deaths where there was no privy accommodation. A solitary death took place where the privy was supplied with water from a pipe, and there were 291 deaths in patios and houses where there was no water supply for cleansing the privy. The nuisance from the privies is very great, and was complained of in localities where there were 253 deaths from the epidemic.

This lamentable condition of the house drainage has obviously exerted a very fatal

influence on the mortality from cholera,

The general plan and arrangement of houses appears to have exercised a powerful Effect of effect on the rate of mortality. The houses are either built in line, and are so arranged House construction on as to retain damp and render thorough ventilation very difficult, or they are built in struction on the struction of the struction on the struction of the struction of the struction on the struction of the struct closed courts of small area forming a kind of square well entered by a narrow low passage from the street. The houses are built round this court or patio, as it is called, in several floors with windows and doors opening in most instances only into the court, so that there is no thorough draft. On Plan 5 (B), is shown an actual block of houses and patios of this description. The sinks, privies, and house drains already referred to open into these courts, and the well for supplying water, when there is a well, is also in it, so that in many cases the air from which the houses are supplied is most impure, and the well-water is polluted by infiltration from the foul subsoil of the vicinity. Sometimes the patio is sunk deep below the street which affords access to it, and has to be reached by descending flights of stairs. In such cases one side of the patio is formed by the retaining wall of the earth or rock on the higher level, and in several such instances there has been a considerable epidemic death-rate.

The effect of deficient ventilation arising from this form of house construction is shown in table XII, from which it appears that there were 169 deaths from cholera in houses having windows opening only into the courts. There were 67 deaths in houses having windows opening only into the streets. There were 33 deaths in houses situated neither in courts nor streets, having windows on one side opening into the outer air,—in two of these cases the windows opened over sinks. There were 13 deaths in houses with doors only and no windows. There were thus 282 deaths in houses without thorough draught. And by way of contrast it may be stated that there were only 15 deaths in houses

having windows on both sides opening into the courts and streets.

While making inquiry into the causes of cholera, the overcrowded state of many Effect of existing houses was frequently brought under notice. Overcrowding exists to a large overcrowdextent in the higher districts of the town, which are chiefly inhabited by the poor classes and by temporary residents, and was one cause of the greater severity of the epidemic in these districts.

Many of the rooms in which cholera appeared were less than 12 feet square and not more than 8 feet high, and contained from 5 up to 10 and 12 inmates. Overcrowding, though a very important element in the question, was however not the chief predisposing cause of the epidemic. Out of 297 deaths, 184 took place in crowded houses and rooms, and 113 in houses or rooms not considered to be crowded.

The population of most of the patios together with the deaths in each are given in table VIII. The courts vary much in the extent of accommodation they afford, and the number of inhabitants is therefore no criterion of the extent of crowding. It is however impossible not to be struck with the enormous mortality in some of these courts. in house 10, district 25, there were 7 deaths from cholera out of a population numbering This house is built on irregular ground, the approaches are badly paved, the apartments are all bad and several are unfit for human habitation. The walls and floors are damp; there are no chimneys; the rooms have openings only on one side; and there are three cesspools in the house full of soil and sewage-two of them running over.

In house 52, district 3, out of 69 inhabitants, 8 died of cholera. In house 24, district 26, out of 70 persons 6 died. In one of the houses, No. 5 of district 27, where cholera was very fatal, there were 5 deaths out of 29 inmates. In another case 4 died out of 16, and in another 7 died out of 20. There are very few instances in this table in which the death-rates to population have not been excessively high, and while making every allowance for the destruction of human life occasioned by foul air from drains, sinks and privies, it is impossible, in my opinion, to escape from the conclusion that improved house construction in future buildings, and improvements in the ventilation of existing houses, are indispensable elements in the sanitary improvement of Gibraltar.

Misuse of building ground by covering it with improperly planned and badly constructed houses together with drainage defects have converted some of the best and most

healthy building sites in the garrison into hotbeds of epidemic disease.

Want of house cleansing. The internal condition of houses at the time of attack is given in table XII, from which it appears that there were 116 deaths in houses where the walls and floors were considered to be clean. There were 21 deaths in houses the cleansing of which was indifferent, and there were 159 deaths where the houses were not clean.

3.—Sanitary Condition of Houses where Deaths from Cholera took place in the South Districts.

Houses of the civil population in the South districts where cholera appeared are chiefly in the vicinity of the South barracks and naval establishments. The localities are more open, and possess certain advantages over those in the town of Gibraltar, where cholera was fatal; but many of the houses are constructed on sloping ground, and the back walls of some of them are built against sections of earth or rock, as is often the case in the town itself.

The epidemic carried off 29 persons in the south districts, and a reference to the facts stated in table XII. proves that this mortality was not exceptional, but that it ac-

companied local causes similar in kind to those existing in Gibraltar.

These causes may be briefly stated to be: bad drainage, or want of drainage, cesspools, insufficient water supply, not generally of good quality; defective construction of houses, ventilation insufficient; nuisance from privies, sinks, and drains; defective surface paving, considerable overcrowding, and generally bad sanitary condition.

#### 4. Sanitary Condition of Barracks at the time Cholera prevailed.

At page 11 is a table showing the number of diarrhoa cases recorded and of cholera cases in each barrack, and I now proceed to state briefly the local conditions which

appear to have favoured the existence of the disease among the troops.

In the "Report on the Sanitary Condition of the Mediterranean stations," the nature of the barrack accommodation at Gibraltar was fully discussed. It was shown in that report that there was no good healthy barrack on the rock; that all the casemated barracks in the lower districts of the town were most unfavourably situated as regards the adjacent levels; that their floors were very little raised above the sea; that the drainage of the higher districts of the town was conducted directly under several of them, and discharged across the breakwater, from which most offensive smells pervaded the atmosphere of the barrack rooms; that the construction of the rooms, however good for defensive purposes, was unsuitable for health; that the floors were of stone instead of wood without ventilation below them, and consequently that many of the rooms were damp; that in every instance the rooms were without sufficient ventilation; that they were much overcrowded, and that many of the rooms were unfit for human habitation in such a locality and climate. It was further shown that the barracks on higher and more healthy positions were open to several of these objections; that the construction, position, and ventilation were unfavourable, and that all were overcrowded.

In consequence of recommendations in the report referred to, the Secretary of State for War directed certain improvements to be carried out in the barracks and hospital; but the changes actually required were so extensive, involving, as they did, not only the sanitary improvement of barracks, but the reconstruction of the entire sewerage, drainage, and water supply of the town, together with other changes necessitating the issue of an Order in Council, that very little had been accomplished at

the time the epidemic of 1865 began its ravages.

Premising then, that all the evils connected with bad drainage, bad water, and generally defective sanitary condition of districts in which barracks were situated, as described in that report, existed during the late cholera, I shall state, in regard to each barrack, the improvements which had been carried out by the month of August 1865, as described in table XIII., together with the then existing defects most likely to have aggravated the severity of the epidemic, as these are given in table XIV., filled up by the medical officers of regiments, and partly also from inquiries made on the spot. But it is necessary at the same time to repeat what has already been stated, that the amount of disease in each barrack can scarcely be taken as an index of its sanitary condition, because the troops were removed out of several of the worst barracks as soon as cholera appeared among them.

Grand Casemates. There were 15 cases of diarrhoa, 11 cases of cholera, and three deaths in the Grand Casemates. Out of 26 casemates, 16 had been ventilated. Wooden floors had been introduced into three casemates and fire-grates into two. The shafts for ventilating the privies had been heightened.

The cubic space per man in the casemates where cholera broke out was 380, 408, 490, and 498 feet. There were two cases only in rooms where the cubic space was above 600 feet, and neither of the cases was fatal. There was great overcrowding of affected rooms in these Casemates.

The ventilation was insufficient. There was nuisance from putrid deposit from privies and other causes existing at the Waterport, mainly connected with bad drainage. There was nuisance also from the latrines. The general sanitary condition of the vicinity was bad. The water derived from tanks was insufficient in quantity and tasted badly.

The Waterport guard-room, close to the Grand Casemates, had been ventilated; but

officers and men there on duty were exposed to the same nuisances.

Moorish Castle barracks are in an apparently healthy position, but they are close to Moorish a vertical escarpment of rock.

There were 23 cases of diarrhoa, seven cases of cholera, and five deaths in them.

A fatal case of cholera took place in a room where the cubic space was under 227 feet

The other cases occurred in rooms affording 315, 393, 405, 423 cubic feet per man. Only one case, and that not a fatal one, took place in a room with 762 cubic feet per

man. There was thus great overcrowding in this barrack.

The ventilation was insufficient; indeed nothing had been done to improve it. The drainage of the locality is very defective and gave rise to nuisance at the time of the cholera. The latrines appear to have been in the same unwholesome condition as they were when reported on in 1863. The general sanitary condition of the neighbourhood is as bad now as it was then.

The water supply is by contract, and is derived from the Neutral Ground wells. Its quality has been already described. It was insufficient in amount and tasted badly at

the time of the epidemic.

This barrack is scarcely fit for habitation from its local position and bad construction. Orange It used to be occupied by 160 men, but contained 78 at the time cholera began in the Bastion.

The over-crowding had apparently been done away with, and each man had above 900

cubic feet.

The casemates had been ventilated and ventilating fire-grates had been introduced.

Wooden floors had also been laid.

The ventilation was complained of as being insufficient, but it is very doubtful if any method of renewing the air by natural means would remove this defect, which depends on the position and construction of the casemates.

There was nuisance from the decomposition of sewage and sea-water within the breakwater. The drainage and general sanitary condition of the vicinity were both bad. Water was carted to the barrack by contract from the North Front wells. Its quantity was insufficient; it was bad in quality.

There were five cases of cholera in Orange Bastion, all of which proved fatal, and six

cases of diarrhœa.

There were 15 cases of diarrhoea and two cases of cholera, one fatal, in the casemates Prince of Prince Albert's Front.

At the time the disease broke out, ventilating shafts and fire-grates had been com- Front.

pleted. The rooms had likewise been floored.

The average cubic space per man was 549 feet, but with this allowance the ventilation was found to be insufficient; there was thus overcrowding and defective ventilation. There was nuisance from the breakwater, and the general sanitary condition of the locality was unsatisfactory. The water supply was insufficient in amount, and of bad quality; it was brought by a contractor from the North Front wells.

King's Bastion is perhaps the worst barrack on the rock, although at the time cholera King's Basappeared it had been improved by having been supplied with ventilating shafts and tion. ventilating fire-grates. Wooden floors had also been laid. The barrack was very properly vacated, and the men were camped out as soon as cholera appeared; but nevertheless all the cholera cases, four in number, which took place among the men while in this barrack, proved fatal.

The space per man was only 498 cubic feet, and with this overcrowding the venti-lation was found to be insufficient. There was likewise nuisance from both drains and latrines, and the sanitary state of the neighbourhood was indifferent. Four very offensive town drains are carried out and enter the bay, two of them on each side of this barrack. Water was supplied by a contractor, and deposited sediment on standing. No one

racks.

Albert's

who has inspected these casemates can have any doubts as to their being unsuitable for ordinary barrack rooms. They are dark, damp, sunk in a well, formed by the works and by the retrenchment, and they are only fit for affording temporary shelter during a siege.

Wellington Front. No improvements had been carried out in Wellington Front casemates before cholera appeared.

There were among the men in them 10 cases of diarrhoa, together with seven cases

and five deaths from cholera.

Several of the cases took place in inner casemates, having only loopholes for light

and ventilation, and no doors opening directly on the outer air.

In all the affected rooms the cubic space was under 500 feet per man, consequently there was considerable overcrowding. The ventilation was insufficient; there was nuisance from drains. A large drain passes under the barrack. Water was obtained from a tank, and deposited sediment on standing.

Town Range Barracks. There were 19 cases of diarrhoa, and two cases of cholera, both fatal in these barracks.

Before the epidemic appeared Jennings' latrines and urinals had been introduced,

together with ablution and bath rooms.

The space per man in the affected rooms was 600 cubic feet. The ventilation was insufficient, for nothing had as yet been done to improve it.

Water was obtained from tanks, and is stated to have been good.

Hargrave's Barracks.

The principal sanitary improvements which had been carried out in these barracks were the introduction of Jennings' latrines and urinals, together with bath and ablution rooms. The guard-room and school-room had been ventilated.

There were 20 cases of diarrhoa, and two cases of cholera, one of which was fatal,

among the troops in occupation.

The cubic space was 600 feet per man. Ventilation was considered by the medical officer to have been sufficient, but no improvement had been carried out such as had been recommended.

Water was obtained from the North Front wells; it was insufficient in quantity, and tasted badly.

South Barracks. The "Report on the Sanitary Condition of the Mediterranean Stations" shows that the structure of the South barrack is bad, and unfavourable to the free circulation of air through it. Its local position is, however, much superior to that of the casemated barracks in the town of Gibraltar.

It appears that nothing had been done to improve the sanitary condition of South

barracks.

There were in it nine cases of diarrhoa, 13 cases of cholera, and 10 deaths.

The rooms were much overcrowded, for the space was no more than 379 cubic feet per man.

Buena Vista Barracks. These barracks afforded 29 cases of diarrhœa and eight cases of cholera, four of which proved fatal.

The latrines had not been improved, and there was smell from them in all the barrack rooms near them.

The ventilation had undergone no improvement. The tank water in use is said to have been of bad quality.

There was some overcrowding, as the space per man was from 512 to 528 cubic feet.

Europa Hutment.

This barrack consists of a series of stone buts, each containing two good men's rooms, besides sergeants' quarters. These buts have ridge ventilation, but in some instances it was insufficient during the epidemic.

The space per man varied from 512 to 518 cubic feet.

Among 378 men in these huts, there were 16 cases of diarrhea, 10 cases of cholera, and eight deaths. Three of the fatal cases occurred in one hut in men who had been drinking in Gibraltar, and who were taken fatally ill after their return during the night.

The great sanitary defect in these buts is, that their floors have all been more or less sunk below the level of the adjacent ground, to the extent of three feet and upwards. By this oversight buts of otherwise good construction have been rendered unhealthy.

Water is obtained from iron tanks, and is stated to have been muddy and badly

tasted.

The only improvement which had been carried out at Windmill Hill barracks was the Windmill construction of a urinal. In all other respects this barrack was in the state described in Hill Barthe "Report on the Sanitary Condition of the Mediterranean Stations."

There were three cases of diarrhœa, four cases of cholera, and two deaths from cholera

among the troops in occupation.

The cubic space per man was from 349 to 354 feet, so that there was much overcrowding, and the ventilation was insufficient.

Jumpers Bastion .- The sanitary condition of the casemates in this bastion had been Jumpers materially improved before the cholera visited the locality. Besides other improvements, Bastion the cubic space had been raised to 908 feet per man wooden floors had been laid in the cubic space had been raised to 908 feet per man, wooden floors had been laid in each room, ventilating shafts and fire-grates had been introduced, and water latrines and urinals substituted for the previous unwholesome arrangements. The local position of the rooms is disadvantageous for health; but there was no cholera in them. There were 10 cases of diarrhoea and no deaths out of 79 men in occupation. This barrack, which used to be one of the most unhealthy on the rock, had been improved; sufficient space had been allotted to the men, and it escaped cholera, notwithstanding its objectionable position.

Naval Hospital .- This building belongs to the Admiralty, and is lent to the War Naval hos-Department. It is at present the Military Hospital of Gibraltar. It is situated on a pital. plateau close to the steep slope of the rock which rises to a great height behind it, and interferes with its ventilation and light on one entire side.

The buildings contain sick wards, quarters, and offices of various kinds.

Table XIV. shows that there were in the buildings 10 cases of cholera, four of which proved fatal. One of those fatal cases was in a man who attended on cholera cases. The other three fatal cases appear to have taken place inside or in men living in the hospital. Several cases not fatal took place in orderlies stated to have been engaged on public works.

The principal sanitary improvements which had been carried out in this building before cholera appeared, were drainage, and substituting water latrines for privies, but there were no water-closets in the hospital. The wards with one exception had been ventilated, but in several instances the louvres at the lower ends of the shafts were omitted, and when I inspected the wards the covers of the shafts were closed, so that there was no ventilation.

These details of the sanitary condition of the principal barracks at the time cholera prevailed are sufficient for the purpose of enabling an estimate to be formed of their probable influence on the health of the troops during the epidemic.

#### Sanitary Condition of Married Quarters where Cholera occurred.

Table XV. gives the sanitary details regarding all the more important diarrhea cases, and all the cholera cases which took place in various classes of quarters occupied by married soldiers' families; but many slight cases of diarrhoa were not recorded, on account of not having been considered of sufficient importance.

The table, page 12, abstracted from table XV, gives the cholera cases and the more important cases of diarrhoa in each class of quarters.

Buildings occupied as married quarters were exposed to the same general local conditions as those already described as appertaining to the houses of the civil population in the same districts.

Where married people occupied any part of the usual barrack accommodation, as was the case at the Grand Casemates, Wellington Front, Prince Albert's Front, King's Bastion, Town Range, &c., they lived very much under the same sanitary conditions as those already mentioned.

The older hut quarters, such as those at Windmill Hill and Europa Pass, afford a very inferior class of accommodation. They are all on ground floors, without drainage, and badly supplied with water.

The defects of special married quarters may be summed up briefly as follows:

North Front Cottages.—These cottages were exposed to the influence of the North Front nuisances and cemetery, all of which were at no great distance. There appears to have been no overcrowding, but all the rooms are on the ground floor, with higher ground immediately behind them; the ventilation was deficient. There was no

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drainage. There were overflowing cesspits among the houses. The water supply was derived from the North Front wells, and was of bad quality. There were four cases of cholera, three of which proved fatal, besides a case of diarrhœa, in these quarters.

Moorish Castle Quarters.—The whole neighbourhood of these quarters is in a bad sanitary condition as regards the state of the drainage and surface. All the cases took place in ground floor rooms, having sloping ground rising high above them. There was nuisance from the drains. The rooms were considerably overcrowded for health during an epidemic. There was deficient ventilation. Water was supplied by a contractor from the North Front wells. The water was insufficient in quantity and tasted badly.

In these married quarters, there were 37 cases of diarrhœa and 7 cases of cholera, five

of which proved fatal.

Hargraves Married Quarters.—There was one fatal case of cholera in these cottages, and three cases of diarrhea. Besides defects in local position, arising from the quarters being close under the steep slope of the rock, their inmates were supplied with bad water from the North Front Wells.

Crutchets Ramp.—A new range of married quarters on three floors had recently been constructed on this ramp, overlooking the grand casemates. They are isolated from the rock, and have windows and doors on opposite sides, so that there is a thorough draught across the rooms. Each floor has a terrace in front giving entrance to the rooms, reached by an outside stair, and hence each room is separately ventilated and cut off from all the others.

The population in these quarters at the time I visited them consisted of 35 men, 31 women, and 70 children, which may be taken as representing the number of inmates at the time of the cholera. There was one case of diarrhea in a man, and one case of cholera in a woman. Both cases recovered. No child was affected. Water for these quarters is carried from the North Front Wells.

#### 6 .- Predisposing Causes of Cholera in the Prisons.

Windmill Hill prison. Important experience in regard to the influence of a certain class of conditions in predisposing men to cholera was afforded by the course of the disease in Gibraltar prisons. One of these, a military prison, is situated on Windmill Hill, about 400 feet above the sea level. It occupies a healthy position, and has abundant external ventilation and good drainage. It is constructed on the usual cellular system. The cells and body of the building are ventilated by natural means, and the only defect stated at the time of the epidemic was that water obtained from a tank filled from the North Front Wells was not good. In this prison there were 3 cases of cholera in private soldiers, and none proved fatal. There was one fatal case in a civilian.

Moorish Castle prison. There is another prison at Moorish Castle also for military prisoners. It is not so good by any means as Windmill Hill Prison, but it has room for very few prisoners only. Both prisons are kept perfectly clean and in good condition, but the space at Moorish Castle Prison is too small, the accommodation is not very good, and there is the usual defect in the water supply. There were four cases of choleraic disease in this prison; none fatal.\*

Convict prison. A striking contrast to the comparative immunity of inmates of these prisons from cholera was afforded by the experience of the Convict establishment already referred to. This prison consists of a long wooden building in two floors, situated a few feet above the sea level, on a narrow strip of ground at the naval yard, having the sea on one side and the lofty wall of the works within a few yards of the building on the opposite side. This wall rises above the top of the prison and cuts off the ventilation on the land side, while between the prison and the sea there is a range of one-story wooden buildings, used as warders' rooms, &c. which materially interferes with any air currents coming from the sea.

The prison consists of a central corridor on each floor, running from end to end, and cut across, in mid-length, by a cross passage. On each side of this corridor, on both floors, are spaces separated from each other by wooden partitions, and divided off from the corridor by iron gratings. Each of these spaces is 20 feet long, 16 feet wide, and 9 feet high, and is intended for 16 men sleeping in hammocks slung the lengthway of the divisions.

Besides the comparatively good sanitary state of the prisons, the medical officers attribute much of the immunity of the prisoners from attacks of cholera to effectual measures taken for the immediate discovery and treatment of cases of diarrhos.

When all are occupied, the space per man, including the corridor space, would be about 216 cubic feet. The average inmates at the time cholera broke out amounted to 850, accommodated under one roof, in four divisions, two above and two below.

In the compartments are 56 soil-pans, used also as urinals, without any ventilation

separate from that of the divisions.

The convicts were employed all over the rock during the day and returned to the prison for the night. Some were taken ill on the works, others in the prison, and two or three of the warders suffered.

The prison was as clean and well kept as possible, but it had the grave defects mentioned of unfavourable position and bad constructive arrangements, together with great overcrowding, and the result was, that out of 850 convicts 79 were attacked and 54 died of cholera.

## VI. Summary of facts regarding the Cholera of 1865 in reference to measures for protecting the Public Health.

Measures for protecting the public health from epidemics of cholera resolve themselves into two classes—sanitary improvements and quarantine restrictions; and one of the most important public questions at the present time is to determine on which of these measures dependance is to be placed. It may be useful, therefore, before stating the practical results of the Gibraltar inquiry to give a brief summary of the statistical tables filled up at Malta and Gibraltar by army medical officers and by the police authorities, in order to show under what conditions or laws the disease committed its ravages in both garrisons.

During six months before cholera appeared in Malta there was an unusual prevalence of gastric affections; the mortality from fever was double the average; the mortality from a choleraic disease, the so called "gastro-enteritis," was also doubled. While cholera was as yet confined to Arabia there were two outbreaks of choleraic disease at Malta, one of which was reported as cholera. At Gibraltar there was a slight increase of bowel diseases before cholera broke out. Both at Malta and Gibraltar the epidemic had a

period of increase, a maximum, and a period of decline.

In Malta 82 per cent. of "houses" attacked with cholera yielded one death per house; in Gibraltar 61 per cent. of attacked houses yielded one death per house. (In each garrison a "house" generally includes several occupancies and often contains a score or more of inmates).

In Malta 83 per cent. and in Gibraltar 77 per cent. of barrack rooms attacked yielded a single case of cholera in each. With few exceptions these barrack rooms contain from

20 up to as many as 50 or more men per room.

In Malta 31 rooms and in Gibraltar 23 rooms in married quarters yielded cases of cholera; of these rooms 29 in Malta and 21 in Gibraltar yielded each a single case. All the married quarters attacked were deficient in space or were otherwise in a defective sanitary condition.

Out of 1,579 civilian deaths in Malta and Gozo, only 125 deaths took place in rooms over the first floors of dwellings, and 1,454 deaths took place on lower floors. A similar fact was observed in Gibraltar, where out of 330 deaths only 18 took place on floors corre-

sponding to the upper floors of the Malta houses.

Both at Malta and Gibraltar all the deaths with very few exceptions which took place among soldiers and their families in barracks and quarters took place in ground floor rooms.

The law of distribution of cholera in Valletta in 1865 was the same as the law of the distribution of plague in 1813. In Gibraltar the same houses and barrack rooms which yielded cases of cholera in 1860 were seats of cholera in 1865. In both garrisons the localities of cholera in 1865 were the same localities where other epidemic diseases, fevers, eruptive fevers, and the like usually prevail.

In both garrisons the disease was most intense in houses situated on steep sloping ground. In Malta the foot of the slope and in Gibraltar the higher levels suffered most,

for special local reasons already mentioned.

Out of 620 civilian deaths from cholera within the garrison at Malta 570 took place in houses with open privies directly communicating with the foul town drains; and nuisance from this cause was complained of in houses where 468 persons died of cholera. Out of 408 deaths in the Gibraltar police return 286 took place in houses with privy accommodation of a similar description, and nuisance was complained of from these privies in houses where 253 persons died.

In all the country districts both of Malta and Gozo, in houses where deaths from cholera took place, there is no drainage, and the people live and sleep surrounded by their

own filth and by the dung of animals accumulated under living rooms for sale or for agricultural purposes. On the north front at Gibraltar the cholera mortality was confined to houses in the vicinity of well known nuisances of a similar kind.

Nearly all the deaths in Malta and Gozo took place in houses where water tanks are placed under courts and houses, and in close proximity to drains, dunghills, cesspits, sewers, and other sources of impurity. All the deaths in Gibraltar took place in houses

where the water supply was more or less impure and unwholesome.

Houses in Malta and Gibraltar are constructed round closed courts. Those in the towns are small and narrow, surrounded by high houses, and having windows mostly on one side only. Want of sufficient ventilation, influx of sewer gases into the courts, and absence of thorough draft are almost universal; and the statistical tables give the

following as the results of this defective construction of houses.

In Malta and Gozo there were 215 deaths in houses without windows. There were 784 deaths in houses with a single window or loophole. Houses with two loopholes or windows yielded 457 deaths. Houses with three windows had 75 deaths. There were only 14 deaths in houses with four windows or openings. There were eight deaths in houses with five openings or windows; and one death in a house with six. There were no fewer than 1,207 deaths from cholera in houses where the windows or other openings were on one side of the house. In the garrison towns there were only 67 deaths in houses with windows on two sides of the house. The same law held good in Gibraltar, where there were 282 deaths, nearly three-fourths of the mortality, in houses without thorough draft. With few exceptions cholera cases in barracks in both garrisons took place in rooms without thorough draft.

Both in Gibraltar and Malta overcrowding prevailed in all the districts attacked by

cholera, especially in the town districts.

All the barracks attacked with cholera in Malta and Gibraltar were very much over-

crowded.

The results of this extensive and minute statistical inquiry thus establish the fact that wherever cholera prevailed in Malta or Gibraltar there were invariably present most of the following unhealthy conditions:—

Foul air from drains and sewers contaminating the atmosphere of close courts and

living rooms in towns.

Foul air from accumulations of human excreta and of dung of animals contaminating

the air of sleeping rooms in country districts.

Stagnation of this foul air in houses from absence of thorough draft and want of ventilation, thus favouring putrescence of the air breathed by the inmates, especially during the hours of sleep. The same evils increased by an overcrowded and filthy condition of many courts and houses.

Subsoil damp arising from want of drainage and bad local position of dwellings.

Unwholesome water obtained from bad or doubtful sources or caused by dangerous methods of storing and distributing the supply.

Generally bad sanitary condition of many old houses indicating the need of alteration

or reconstruction.

With few exceptions the barrack rooms in Malta and Gibraltar are all inferior or bad either in position, plan, or construction. Several buildings occupied as barracks in Malta were never built for such a purpose. Many large barrack rooms have no thorough draft, rendering free ventilation impracticable.

Both at Malta and Gibraltar there were striking instances of marked immunity from cholera, and in all of these the unfavourable conditions enumerated above were absent.

There are no facts, such as ought to be admitted in any scientific inquiry, to show that the movement of cholera either in Malta or Gibraltar was due to communication of the disease from person to person, or that it spread from any centre or centres; the facts of the epidemic point to other laws of development and progress altogether.\*

The whole of the evidence goes to prove that during the epidemic of 1865, cholera attacked the inhabitants of Malta, Gozo, and Gibraltar, in conformity with the same laws which have influenced the movement of all known cholera epidemics: that the local causes with which the severity of the disease was obviously connected differed in no respect from the local favouring conditions of all previous epidemics, and that the class

<sup>\*</sup> This is true of all epidemics. If we admit that these diseases may, under certain conditions, become communicable from person to person, this peculiarity would in no sense account for the observed phenomena of epidemics. Even in regard to scarlet fever, generally considered to be the infectious disease par excellence, the Army Sanitary Committee has proved in its "Report on the epidemic scarlet fever at Aldershot in 1864-5," that infection exercised no appreciable influence on the succession of cases, or on the progress of the disease, which appeared to be mainly determined by obvious sanitary defects.

of improvements required in both garrisons to protect both troops and civil inhabitants are essentially the same as are everywhere necessary, modified only by the climates.

Such having been the results of this inquiry I shall next proceed to give a brief detail of the quarantine practice at Gibraltar in 1865, in order that we may see how far this practice was in conformity with the observed laws of the disease and what were its results to the health and commercial interests of the community.

The Colonial Office, Gibraltar, prepared at my request a list of vessels placed in quarantine, showing the proceedings which had been taken regarding them. This table is given in Appendix XIX., and is well worthy of consideration in connection with those facts respecting cholera in other countries as well as in the garrison which

have been detailed in the preceding pages.

As already stated cholera was established among the civil population of Alexandria on June 12th 1865; and two days afterwards, its existence was recognized by the consuls, who telegraphed the fact on the 14th. On this day, the 14th, quarantine was declared at Malta against all arrivals from Alexandria. The first vessel placed in quarantine at Gibraltar was the "Rhone," which arrived on June 26th; she had left Alexandria on the 16th June. She arrived at Malta on the 20th, and landed 147 passengers at the Lazaretto, among whom there took place three cases of diarrhæa, all of which recovered, but no case of cholera. A passenger and fireman had died of cholera during the voyage from Alexandria to Malta; but there were no casualties subsequently. The "Rhone" did not ride out her quarantine at Malta, and sailed in quarantine from Gibraltar.

The next arrival was the "Italian," on June 28th. This vessel had arrived at Malta from Alexandria on the 23d. She landed 176 passengers at the Lazaretto, Malta, among whom there occurred a solitary case of diarrhea with vomiting, which recovered,

She sailed from Gibraltar in quarantine.

The "Tarifa" arrived at Gibraltar on July 1st, after having put into Malta, where she landed two passengers on June 25. The master had died of cholera after leaving Alexandria. There were two cases of diarrhœa on board. The "Tarifa" sailed in quarantine.

On July 4th arrived the "Danube" from Alexandria, after having landed 20 passengers at Malta on June 29th; none of them were afterwards taken ill, and there was no sickness

on board. The vessel sailed in quarantine.

On the 5th and 6th July arrived the "Ellora," "Morocco," "Syria," and "Wyvern," from Alexandria and Malta. All of them, except the "Syria," had landed passengers at Malta. The "Ellora" had had two deaths from cholera after leaving Alexandria, and she had several diarrhea cases on board. The "Wyvern" landed 302 passengers at Malta, one in collapse from cholera. She first sailed for Malaga, and was ordered away. All these vessels left Gibraltar in quarantine. Two vessels at anchor in the bay were placed in quarantine, because one had received cargo from the "Morocco," and the other, three passengers from the "Syria."

From this date onwards until August 3d, when cholera broke out in the north front cottages, there arrived 18 vessels from the East, all of which arrived and sailed in quarantine.

Vessels in quarantine at Gibraltar lie out in the bay at a considerable distance from any part of the shore; and whether or not these vessels carried cholera on board, it is certain that the disease broke out without communication with them.

The same proceedings were continued during the whole period of cholera. From August 3d to October 27th 1865, the date of the first and last cases in Gibraltar, 130 vessels entered the port in quarantine. There were about 1,100 cases and 568 deaths from cholera in the garrison between those dates. And there was not a single case of cholera on board any of those ships, whose commerce was thus arrested for the purpose of keeping a disease, which they had not got on board, out of the garrison, where it already existed.

One event, of melancholy interest, connected with these quarantines, deserves a passing notice, in order that we may be able to realize what are the legitimate results to health and

life of this method of dealing with epidemics.

The "Samaunt," a pilgrim ship, with about 1,000 pilgrims on board, was struck apparently with cholera. She had originally sailed from Alexandria, and put in at Mahon, where she performed quarantine. Thence she appears to have sailed for Tangier, a port in the pilgrims own country. She was refused admittance, and had to put out to sea with the pestilence onboard. She came to Gibraltar on the 3rd September, while cholera was spreading in the garrison; but there also she was refused admittance. Up to this date there had been about 50 deaths on board. She made several cruizes out to sea to bury the dead. On the 24th she went to Mogadore, also in the country of the pilgrims, in the hope of being able to land there, but was refused admission. She had to land the pilgrims at

Mogadore island. She came back to Gibraltar on the 6th October. She remained 15

days in the bay, and was finally ordered away.

The proceedings at Gibraltar with regard to this ship were perfectly consistent with the quarantine usage of adjacent countries. There was nothing singular in them. But surely the time has come for the more enlightened Governments in Europe to enter into some arrangement by which similar occurrences shall be prevented in future.

The quarantine carried on at this period between Gibraltar and Spain was equally

without reasonable foundation.

In the list of dates and localities attacked in Spain, given in a preceding page, it will be seen that at a time when cholera existed in Spain, from Barcelona to Cadiz, and from Valencia to Madrid, the Spanish authorities drew a sanitary cordon across the neutral ground, for the purpose of cutting off intercourse with Gibraltar except in conformity with certain ceremonial observances adopted on these occasions.

The avowed object was to prevent dangerous intercourse between Gibraltar, where there was cholera, and Spain, where there was cholera; so as to keep out of Spain an epidemic disease which had already manifested its presence over a third part of the area

of the country.

While this cordon existed, Gibraltar on its part kept up an active quarantine against all ports where there was cholera, including all affected Spanish ports. In this case also the object was to keep out of Gibraltar a disease which was at the very time committing havor within the garrison. Spain cuts off communication with Gibraltar by land, and for the same object Gibraltar cuts off communication with Spain by sea.

The Spanish cordon was established on the 24th of August, five days after the first case of cholera among the civil population of Gibraltar; and we learn from the Gibraltar Chronicle of September 12th that cholera suddenly appeared at St. Roque four or five

miles behind the cordon, and proved fatal to six persons on one day.

At a later period, October the 9th, the disease entered a solitary house between St. Roque and Algeciras, away from all communication with affected localities, and attacked the inmates.

It is perfectly certain that these events took place in spite of the cordon.

It has already been shown that during the entire duration of the epidemic at Gibraltar no cholera cases took place in quarantine.

By referring to Table XIX., which only brings the quarantines down to the end of September 1866, it will be seen that there was not a single case of cholera in quarantine

during the entire period among 634 vessels arriving from infected ports.

The total tonnage arrested was 323,409 tons. Of the 634 vessels 244 were quarantined at the instance of Spain; 240 vessels rode out their quarantine, and 395 vessels arrived and sailed in quarantine. The practical result of this great sacrifice, so far as concerns public health, was simply nil; for, in spite of it all, Gibraltar was visited by one of the most fatal epidemics on record. So far as regards commerce the small population of Gibraltar is almost entirely dependent on commerce for its support; and one of the inhabitants said to me, "If we have such another quarantine as we have gone through, it will be our ruin."

Whether cholera be infectious or not, or whether this disease can be transferred or not from affected to unaffected countries on board ship, there can be no doubt of the great practical fact that, notwithstanding precautions taken in accordance with the doctrine that cholera is contagious and importable, and that its importation can be prevented by quarantine, it was not kept out of Gibraltar in 1865 by this procedure, any more than it

had been kept out of Malta a month earlier.

#### VII.—PRACTICAL RESULTS OF THE INQUIRY.

1. This inquiry into the late outbreak of cholera at Gibraltar has shown that the disease was part of a contemporaneous epidemic extending over a large area of the Peninsula, while it has at the same time afforded conclusive evidence as to the co-existence of most obvious sanitary defects with very high death-rates from the disease.

The naturally open healthy area of the North front is exposed to dangerous nuisances from slaughter-houses, cattle depôts, boiling houses, foul beaches, an unregulated burial

Since this Report was in type cholera has prevailed in Tunis, Italy, and Sicily. These countries have been placed under rigid quarantine in Malta; but, in spite of this precaution, cholera burst out almost simultaneously among persons in the Lazaretto coming from Tunis and Italy, and in the villages in Malta.

<sup>\*</sup> From August 1st, 1865, until the end of December 1866, 1,008 vessels with an aggregate tonnage of 502,507 tons, proceeding from ports where there was cholera, were quarantined at Malta. On board of two of these vessels there was in each a single case of cholera. Both vessels were refused admitance. There was not a single case of cholera on board any of the others, and nevertheless cholera broke out with great violence in Malta.

ground, accumulations of bones, offal, and superficially buried dead cattle, want of drainage, bad house accommodation, bad water, and the mortality from cholera among

the civil and military population was very great.

The nuisances ought to be dealt with at once and removed, and the whole of the north front placed under efficient sanitary control. The history of the late epidemic shows that this matter is of great importance, both to the health of troops and civil population. The cemetery should be placed under regulation, and as there are Sanitary Commissioners acting under an Order in Council, it would be most advisable that they should undertake such of the duties performed by burial boards in England as may be considered requisite to meet the special circumstances of the population. Additional powers may be required to enable the Commissioners to do this.

3. It is doubtful whether the present camping grounds should be used until the beaches are thoroughly cleansed, and the entire surfaces exposed to the sun and air for a sufficient length of time to remove any malaria which may have been engendered by past occupancy of the ground. But on the other hand it would not be easy in the present state of the North front nuisances, to find spots less exposed to danger in certain

states of the wind than the present camping grounds.

4. The most difficult improvement is the one most urgently required, and that is improved water supply. The existing wells afford water of bad or doubtful quality, their use should be discontinued with as little delay as possible, and new sources provided both for troops, civil population, and shipping. So far as concerns the shipping, the analysis already given shows that a slight improvement in the quality of the water could be readily obtained by shutting up the present well, and by conducting water, after being carefully filtered into the existing shipping tank, from one of the wells at a greater distance from the beach. The only argument in favour of this proposition is that the other wells yield

a somewhat purer water, and that at present no better water can be obtained.

If the attempt now being made to separate between the large spring of fresh water at the inundation and the salt water by which it is at present rendered unfit for use should succeed, there would be abundance of good water for the whole population of the rock, and part of the supply might easily be directed to the neutral ground. Failing this the only other resource would be to find water by subsoil draining the cleanest portion of the North Front area above the level of high-water mark, provided water of sufficient purity were obtained on trials being made. A distilling apparatus would afford the required amount of pure water for cooking and drinking purposes when troops are camped out. In one way or other the existing wells at the camp should cease to be used for any purposes except for cleanliness.

5. With regard to the town of Gibraltar itself, this inquiry has shown that the most potent agencies in aggravating the intensity of the disease have been bad drainage, bad and deficient water supply, bad construction of many houses, overcrowding, and defects in

paving and cleansing of patios.

There are powers under the new Order in Council to deal with all questions connected with drainage, paving, cleansing, and general Sanitary regulation, except in so far as regards the contemplated extension of the main drainage and outlet to the south district. A scheme for draining the town has already been sanctioned. A beginning will, it is hoped, soon be made in this important work.

Good water has still to be provided.

Additional powers to carry out this improvement will be required as soon as the sources of water supply are determined.

The present water is all either of indifferent or of absolutely bad quality, and its use

was one of the aggravating causes of the pestilence.

If good water can be obtained from the works at the inundation every house may have its supply, but if only brackish water for drainage purposes can be drawn from this source, then the only water fit for drinking and culinary use would be that collected in tanks.\*

There is, I believe, every prospect that enough of water for domestic purposes will be obtained from this source; and, if so, the water supply of the garrison will have received its solution. All that will be required

will be to conduct it inside the garrison, and to pump it to a sufficient height for distribution.

<sup>\*</sup> Since this Report was in type, further progress has been made in this important work. At the southern end of the Inundation there is a nearly perpendicular fissure in the vertical face of the rock, which passes downwards under the level of the sea. A little below high-water level there is a large escape of water from the fissure, containing a variable quantity of fresh and of salt water, depending on the season and rainfall. Works have been carried on to trace the fresh water upwards and inwards to the rock, in the expectation that a point will be arrived at, just above tide level, where a separation between the fresh and salt water can be completely effected. The fresh water comes from rainfall on the rock, which drains downwards into the fissure referred to.

6. A careful periodical examination of sources, tanks, means of distribution, and

chemical qualities of water for the civil population should be made.

Private tanks used for household supply are filled by the washings of roofs or of surfaces; in this way matters both in suspension and solution are carried into the tanks, and the result was that in many cases people had bad tank water to drink while Cholera was in their houses. Where the local advantages are so limited as they are at Gibraltar every care should be bestowed in securing that the water sources available are used to the best advantage for health.

At the present time every new house must have its water tank, and in the event of roof water being the only practicable source for domestic use, it will be necessary that a similar principle should be extended, so that every existing house, as well as every new house, should be provided with sufficient tankage, and that every tank should have its filter through which the water must pass before entering the tank. The condition of tanks, filters, and gathering surfaces should be examined periodically by the Sanitary Commissioners; who should have power to require the execution of or to execute any improvements for securing purity in the household water which may be requisite for protecting the people from disease.

Water of inferior quality would answer for all drainage and household cleansing purposes, for water-closets, water latrines, flushing of sewers, &c. Such water it is intended shall be separately distributed, unless water of sufficient purity for all purposes can be obtained from the works at the Inundation. As many existing wells afford water of a quality totally unfit for domestic use, it would be very desirable, whenever more wholesome water can be obtained, to shut up these wells, and to grant this power to the

Commissioners.

7. As regards the barracks, the experience of the late epidemic has shown that the disease was increased in intensity by the unremoved sanitary defects in drainage, water supply, ventilation, &c., described in the "Report on the Sanitary Condition of the Mediter-" ranean Stations," and that overcrowding of barrack rooms was a powerful predisposing cause of cholera. These defects should be remedied as speedily as possible, and the overcrowding should be put an end to. Better water may now be obtained from two large recently completed tanks, and as the water is partly collected from prepared cemented surfaces, and passed through filters before entering the tanks, it will no doubt be of fair average purity. I would strongly recommend, however, that the gathering ground high up the rock from which these tanks will be in part supplied should be carefully freed from decaying organic matter, animal and vegetable, at least so far as it may be practicable to do so; because, on inspecting the ground from which the rainfall would naturally gravitate towards the tanks, there was much decaying vegetable matter besides myriads of snails and their exuviæ, scattered over its surface. When water is collected for domestic use in this way it is a matter of obvious necessity to take care that there are as few impurities as possible for the water to dissolve and carry with it.

Water from these new tanks has been recently laid on to two of the barracks, and I would strongly advise that where the levels admit of it all barracks, including the hospital, should have this great advantage extended to their occupants with as little delay as possible.

8. There are several other points of importance which have been brought prominently forward by the experience of cholera. One of these is the construction of houses: another the question of overcrowding in connection with the alien floating population.

Under the new Order in Council the Governor and Commissioners have power over the sanitary and other arrangements of all houses hereafter to be built within the garrison, but there is no power capable of dealing with the far more important question of providing improved dwellings. Improvements of this class can only be carried out by private enterprise, and all that can be done by authority is to remove obstructions out of the way, and to grant facilities for investing money in such undertakings.

I had an opportunity of discussing this most important subject with the Commissioners, and from what was stated at the meeting it appeared that a large sum of money would be forthcoming for building purposes if there was only sufficient security given

for the investment.

It was stated as one of the reasons against building better dwellings that the colonial leases were of much too short duration to warrant expenditure on improvements of this class. It appears that the usual lease is for 20 to 23 years, more or less, and it was confidently stated that if longer leases were granted on such terms as amply to secure the colonial revenue, not only would a better class of property spring up, but the revenue itself would benefit by the change.

Much of the property in the garrison consists of freeholds, but these have been so subdivided into small separate interests, and so burdened with mortgage debts, that great and almost insurmountable difficulties would arise if attempts were made at improving or rebuilding the houses either by the present or by other proprietors. It was suggested that powers similar to those of the Incumbered Estates Act would best enable the difficulties to be met, by compensating interests, and by enabling persons willing and able to construct suitable houses to obtain possession of the ground.

The two facilities required, without which the present miserable condition of much of the house property must remain as it is, are, thus, longer leases, and powers for

extinguishing interests manifestly injurious to the public health.

If these necessary facilities be granted, I would suggest that the Governor and Commissioners should agree to a plan for the general constructive improvement of houses and streets, in order that when private enterprise steps in it may be exercised on fixed principles with reference to elevation, drainage, and external ventilation, for the good of all. The building area within the garrison is so limited that without some such prearranged and carefully considered plan of procedure any new house erected may injure rather than improve the adjoining properties.

9. The other point mentioned above is that of the alien population, than which few subjects connected with Gibraltar have given rise to more discussion. Gibraltar affords so many advantages over the neighbouring Spanish towns and villages as a place of residence, and means of living, that there is a constant tendency to influx of people from the districts in the neighbourhood. It is even the habit to send young persons into the

town for education.

On the other hand there is a variable demand for workpeople of different classes; servants, trade assistants, and others, by permanent residents. Numerous applications are made by persons on their own behalf, and also by residents, for temporary permits on behalf of aliens. And one of the difficulties of the Government is to select and decide on the persons to whom permits of residence are to be granted. As many as 4, 6, and 8,000 such applications have been before the police at one time, and there is thus a constant tendency to increase the population of an already overcrowded town. Immediately before the cholera appeared the resident alien population amounted to 2,029; the

number now exceeds 3,000.

The Sanitary Commissioners have certain powers for preventing overcrowding in houses, but the exercise of those powers is manifestly at variance with the power of admitting aliens to residence in a town with a fixed number of houses. It has been proposed to meet the difficulty by granting permission to increase the house accommodation by erecting suitable dwellings on the north front under the guns of the fortress, but it was stated that this is objected to on military grounds. Another proposal to remedy the evil is that Her Majesty's Government should lay down authoritatively certain principles on which permits of temporary residence are to be granted, in order that all persons, both in Gibraltar and in adjacent districts, might know the number and kind of applicants who would be admitted on temporary permits. Other parties again see no reason for interfering with the present practice, and they contend that aliens should be liberally dealt with.

The existence of overcrowding in the houses of Gibraltar is undeniable. In many instances which I have myself witnessed the population has been double or more than double the number which could be safely lodged in the houses. A reference to Table XII. will likewise show that a large proportion of houses where cholera broke out were overcrowded. One want of Gibraltar may be imported labour, but it is quite certain that a

very urgent want is more and better house room.

The present population is too great for the number of houses, and this element of disease has always told on the severity of epidemics from the time of yellow fever to

the present day.

Any questions regarding the policy of admitting aliens are beyond the scope of this report; but, looking on the subject in its reference solely to the health of the garrison, I am of opinion that it is one of very considerable importance, and which requires to be dealt with.

What is really necessary, so far as public health is concerned, is that ample facilities should be afforded for building more houses, and of a better construction, for the accommodation of the resident population, and that due care should be exercised in granting permits not to admit more people than can be safely lodged in the town.

10. There is one subject which was several times brought under notice, and requires to be mentioned, and that is the question of registration of deaths, a duty at present performed by the police, with such means as are at their disposal.

I am bound to acknowledge the zealous assistance I received in these inquiries from

the police authorities; but nevertheless the statistics of deaths from cholera among the civil population are only approximations to the truth. Three separate accounts of the mortality, derived from three different sources, are given in Tables II., IV., and V., and they vary so materially from each other as to convince me that, small as the population is, the actual number of epidemic deaths in Gibraltar during the late cholera is unknown.

As the Sanitary Commissioners of Gibraltar are charged with all questions regarding the public health, it is of great importance that they should have the earliest intimation of the causes of death, and of any increase in the mortality, in order that they might immediately take the necessary steps to prevent the spread of disease. For this purpose there would be no difficulty in adopting the same system of registration of deaths as that in use in England, and the simplest arrangement to effect this improvement would be to

grant authority to the Sanitary Commissioners to conduct the registration.

11. Another matter intimately connected with the public health of the garrison, and for which there is at present no legal provision, is vaccination. I had an opportunity of discussing this subject with Mr. Flood, police magistrate, and the result was a house to house inquiry in districts 25 and 27, which suffered so severely from cholera, in order to ascertain the precise state of the population in these epidemic districts in reference to small pox and vaccination. Appendix XVIII. is an abstract of this inquiry, from which it appears that in October 1866 there were 758 children under 16 years of age in these districts; that out of this number no fewer than 310 had suffered from small pox; that 341 had been vaccinated and had hitherto escaped small pox; while 107 children were still unprotected, having neither been vaccinated nor had small pox. These facts in regard to two districts only out of 38 police divisions (besides North front and Catelan Bay), show that in any future Order in Council, provision should be made for efficient public vaccination.

Lastly. The inhabitants of Gibraltar have had practical experience of the inutility of quarantine restrictions in protecting them from epidemic diseases, and they are now incurring a large outlay for drainage, water supply, and general sanitary regulation. They are doing this under the enlightened conviction that the best way to protect themselves against epidemics is to remove the local causes with which these diseases have always hitherto connected themselves. But after they have incurred the cost of these improvements their commerce during epidemic seasons will still be at the mercy of

states whose only faith is in quarantine.

The question naturally arises, as to whether it is not possible to press on the attention of these states the undeniable fact that cholera is now endemic over a large part of the world: that from time to time it becomes epidemic: that the only result of quarantine in time past has been to lull the people into a security at once false and fatal, by turning their attention away from the real sources of danger, and that the only safeguard of nations from pestilence lies neither in cordons nor in quarantine, but in works and measures for removing local causes of disease.

JOHN SUTHERLAND.

December 20th, 1866. It is the properties of the

# APPENBIX.

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Table I.—Showing the Number of Cases and Deaths from Cholera among the Military Population of Gibraltar during the Epidemic of 1865.

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		Attacked	Died.	Attacked	Died.	Attacked	Died.	Attacked	Died.	Ba- rometer	in Shade.	in Sun.		fallen.	Ozone.	Weather.	
18 July		1	-	-	-	-	-	1	-	Inches. 39'191	s1.0	135.0	W. & W.N.W.	Inches.	0-10. 2	Fine, bright	Camp, North Front (2/22).
19	1	1	1	1	1			2	1 1	20,083	78'0	128.0	W. & W.S.W. W. & N.W.	0	2-5		Carro North Poort (438)
1 August		-	-	-	1	-	-	-	1	39,002	7510	132.0	W.S.W. & W.N.W.	0	3		Camp, North Front (2/22).
3 .	-	1	-	-	-	9	1	3	1	20.020	7615	139-0	W.N.W. & S.W.	0	1.2		North Front ; quarters near
4 -	-	-	1	-	-	-	-	-	1	29.000	76:5	138:0	E. & S.E.	0	4.2	Gloomy	country (2/15).
9 -	-	-	-	1	-	-	-	1	-	29.909	76'0	135.0	E. & S.W.	0	4	Fine, fresh breeze	North Front, married people' quarters (R.E.)
10 -		7	1	-	-	-	-	7	1	59,903	7212	125.0	8.W. & W.	0	2.2	-	Grand Casemates (2/15).
11 -			1	-	1	-	1	-	1	20.088	75'5	133.0	W. & S.W. S.S.W. & W.N.W.	0	3		
13 .		-	-	-	-	-	-	-	-	30'157	74'0	129*0	W.N.W. & W.	0	2	Fine	
14	-	-	-	-	-	-	-	-	-	30.123	74'5	130.0	W.N.W. & S.S.W.	0	1'5		_
15 _	•	1	1	-	-	-	-	1	1	30.152	74:5	119.0	E.N.E. & E.	0	3	Gloomy	North Front, married people quarters (R.E.)
16	-	-	-	-	-	1	-	1	-	30-116	72'0	133.0	E.	0	3	Fine	n n
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24 .		1	1	-	-	-	-	1	1	29-970	7515	101.0	to be blessi	0	3.2	Gloomy, cloudy	Moorish Castle (R.A.)
25		1	-	-	-	1	1	2	1	291934	73'5	103.0	W. & W.N.W.	0	2:5	The state of the s	Camp, Windmill Hill (78). Gree Casemates (2/15).
26	-	-	1	-	-	1	1	1	2	20.010	72'5	89*0	-	0	2	Gloomy, threatening	Wellington Front (2/15).
27 _		-	-	-	-	-	-	-	-	50-103	7015	8810	E.	0	3.2	Strong breeze, threat-	_
28		-	-	-	-	-	-	-	-	30*109	72:5	112'0	N.N.W.	0	2.2	ening rain. Threatening rain	-
29		1		-	-	-	-	1	-	30'185	72'5	130.0	N.W. & S.	0	2.2	Very fine	King's Bastion (2/15).
30		1	1	-		-	-	1	1	30*100	70'5	125-0	E.N.E. & E.	0	2.2	Fresh breeze	Town Range (R.E.)
31 1 Septembe	er	-		1	1	-	-	1	1	30-134	74'0	111.0	E. E.S.E.	0	3 5	Gloomy, hazy	South Barracks (2/23). Crutchett's Ramp Casemate
		- 1	-	-	-	-	-	-		50-213	74'5	9610	E.	0	4	Overcast, threatening	(2/15).
3 .	1	1	1	-	-	-	-	1	1	30.530	77'0	116.0	D.	0	4	Gloomy, hazy	Catalan Bay Barracks (86).
4	1	-	-	1	-	-	-	1	-	30.583	7612	127'0		0	3		Burna Vista Hutments (86).
5	1	2	3	-	1	-	-	2	4	30-190	6910	101.0	-	0.003	3.2	Thunderstorm	Camp, Windmill Hill (78). Ros Casemates (86).
6		1	-	1	1	1	-	3	1	39.161	73'2	92.0	E.N.E. & E.	0	4	Threatening rain	Cruehett's Ramp (2/15). Buen Vista (32). Hargraves (E.E.)
7	1	2	2	-	-	-	-	2	2	30.083	6815	30.0	E.	0	5	Overcast, gloomy	Naval Hospital (2/23). Catala Bay (86).
8	-	1	-	-	-	1	-	2	-	39:117	74'0	96:0	-	0.020	3.2	Overcast, shower	Moorish Castle (R.A.) Buena Vist
9		1	1	-	-	-	1	1	2	39:204	7416	127-0	N.W. & E.S.E.	0	2	Overcast, thunder-	(32). Buena Vista (32).
10	1	2	_	-	-	1	1	3	1	201200	****					storm.	Mousish Castle (D.A1) Coun
10 "		-	-		100	1	1			20,150	74'5	50.0	E.S.E. & N.E.		3.2	Overcast, gloomy	Moorish Castle (R.A. = 1). Gran Casemates (2/15). Kings' Bastie
11		4	1	-	-	-	-	4	1	30.523	69-6	106-5	E. & N.E.	0	4	Cloudy, hazy	(2/15). Prince Albert's Front (R.A.) Ros (R.A.) Naval Hospital (32 Catalan Bay (86).
12		4	3	1	-	-	-	5	3	30.503	72.0	85.0	E. & E.N.E.	0	4		Hargrave's (R.E.) Grand Cas mates (2/15). King's Eastie (2/15 = 2). Camp, Windmill Hi
13 .		3	1	1	-	-	-	4	1	30.156	7515	111-5	E.	0	3-5		(78). Moorish Castle (R.A.) Resin (R.A.) Wellington Front (2/15). King Bastion (2/15).
14		G	3	-	-	-	-	6	3	39:191	7510	86-6	-	0	3.2	Cloudy, hazy, "Levanter."	Engineer Building (R.E.) Welling ton Front (2/15). Camp 5 Europa (32 = 3). Soldier's hom
15 "		1	1	1	1	-	-	2	2	30.533	75:0	91-0		ò	3	30	married quarters (32). Orange Bastion (R.A.) Mooris
16		4	9		-	2	-	6	2	39:206	75-0	112:0		0	3.2		Castle (R.A.)  Camp, Windmill Hill (2/15 = 2) moved from King's Bastion 6 14th, Crutchett's Ram
17		2	1	-	-		-	2	1	30.500	72-5	102.0		0	3		(2/15=2). Europa Huts (32=2) South Barracks (2/23). Nava
		3	1	2	1	1		10	1000			5000					Hospital (32).  Moorish Castle (R.A.) Grand Cast
18			1		1		1	5	2	20.515	74.0	101.0		0	5		mates (R.A.) Engineer Buildin (R.E.) Buena Vista (32). Camp
1	1			1	1	1	1	1	1	1	1	1	1	1			Windmill Hill (78).

Table I .- Showing the Number of Cases and Deaths from Cholera among the Military Population of Gibraltar, &c .- continued.

ī	T .					-	itary.	- 11		- 10	1000	H	+ 11	State of the				
		10	-	-	1	-	T	-	Tot	al of		-		1	1	1	T	A Man Park
	Date.		Str	en, enth	Stre	men, eneth 421.	Str	ldren, ength 703.	all S	Ages, Ages, otal moth 2078.		Mean Tempe- rature in	Maxi- mum Tempe- rature	Direction of the Wind.	Quan- tity of Rain	100000000000000000000000000000000000000	General Character of the	Localities of Disease,
_			Attacked	Died.	Attacked	Died.	Attacked	Died	Attacked	Died.	rometer	100	Sun.	.11/4	fallen.	Ozone.	Weather.	
19	Septem	ber	5	-	-	-	-		5	-	Inches, 30°285	73'5	88.0	E.	Inches.	9—10. 3°5	Cloudy, hazy, "Levanter."	Orange Bastion (R.A.) Naval Hospital (2/15). Beuna Vista (32). Europa Huts (32). Wind- mill Hill (86).
20			3	1	-	1	1	-	4	2	301237	74'7	100.0		0	2.2		Europa Huts (32 = 3). Windmill Hill, Officer's Quarters (86).
21			3	3	-	-	-	1	3	4	30-159	73-2	110.0	E. & N.E.	0	3	Cloudy, hazy, lightning.	Orange Bastion (R.A.) South Barracks, attacked with diarrhora on Waterport Guard (2:23). Naval Hospital (32).
22			4	2	-	-	-	-	4	2	30.083	75.0	111.0	E.	0	3	Cloudy, hazy, gloomy	Orange Bastion (R.A. = 2), Wellington Front (2/15), Buena Vista (32).
23			3	6	-	-	1	-	4	6	30-118	74.0	106.0	-	0	3	Cloudy, hary, "Levanter."	Engineer Building (R. E. = 2), Wellington Front (2/15). Buena Vista (32),
24	**		3	2	1	-	-	1	4	3	30-230	72-5	53.0	-	0	4	Overcast, shower	Moorish Castle (R.A). Castle Road (R.E.) Europa Huts (32). Nava: Hospital (86).
25			4	2	-	-	1	- 2	1 5	2 3	30.122	74'0	91.0	E. & E.S.E.	0.662	3	Overeast, "Levanter"	Europa Huts (32).
1										,	30.113	78-3	110.0	F	0		Gloomy, hazy	Navai Hospital (2/15). South Barracks: get duar-boen at Moorbik Castle (2/25). Europa Huts (32). Windmill Hill (86).
27	**		4	4	7	-		-	4	4	30°183	72'5	119.0	N.E. & E.	9	3	Gloomy, lightning	Hargrave's (R.E.) Rosia Upper- wood (2/23). Europa Hutments (32 = 2).
28			4	1	1	-	1	-	6	1	30-167	72'0	97.6	E.	0.020	3	Slight shower	Moorish Castle (R.A.) Hargrave's (R.E.) South Barrucks (2.25=2). Europa Huts (32). Buena Vista Huts (86).
29			3	-	1	-	3	1	7	1	30*080	71.5	92.0	-	۰	•		Naval Hospital (R.A.) Moorisa Castle (R.A. = 2). Grutchett's Ramp (R.E.) Buena Vista (R.E.) South Barracks (2 23 = 2).
30	10		1	1	-	-		-	1	1	291987	72'0	114-0	E. & W.	1:397	3.2	Thunderstorm, heavy	Prince Albert's Pront (R.A.)
10	October		4	4	-	-	-	-	4	4	29-951	71.2	110-0	S.W. & W.	0.020	3.2	Slight shower	Rosia (R.A.) Wellington Front (2/15). South Barracks (2/25). Camp, Windmill Hill (78).
2 3			1 2	2		- 2	-	-	1 4	2 2	29-991	73.2	110.0	W. & E.	0	3.2	Fine	South Barracks (2/23).
0		100	100	-	2						301070	72.5	116.0	E.S.E. & E.	0	3		Rosia (R.A.) Grand Casemates (R.A.) Moorish Castle (R.A.) Detached quarter at King's Bas- tion (R.E.)
•		-	•						4	2	30'044	72.5	53.0	E.	0	4	Gloomy, hazy	Rosia (R.A.) South Barracks (2/23), Military Prison, Wind- neill Hill (32), Windmill Hill Huts (86),
5		-	4	2	-	-		-	4	2	20.013	70-0	104.0	S.S.W.	1.100	4	Thunder, heavy rain	Moorish Castle (R. A.) Camp, Windmill Hill (78). Buena Vista Huts (86 = 2).
6		1	3	3	-	-	-	-	3	3	291916	72'5	115-0	W.N.W.	0	3	Clear, fine	Naval Hospital (R.A). Wellington Front (2/15). South Barracks (2/23).
7		-	2	2	-	-	-1	1	2	3	29-904	72'3	111.0	8,8.W. & 8.W.	0	2	Some min	Naval Hospital (2/15). Buena Vista Huts (86).
9	-	-	2	1 -	1		1	1	4	1	29-966	68.2	105.0	W. & S, W. W.N. W & W.	0.510	2.2	Showery Some min	Windmill Hill Barracks (86). Moorish Castle (R.A. = 2). Wind- mill Hill Barracks (86). Buena Vista Huts (86).
10 11	-	:	-	-	1	1	3	-	4	-	29-840	68.2	27.0	N.E.	3:300	3.2	Very heavy min Fine, bright	Naval Hospital (2/23). Soldier's
		1		1									105-0	W.N.W.	0.250		Fine, origin	Home (Europa Pass) Married Quarters (32 = 5).
12		5	1	-1	-	-	1	1	2	1	30:124	68.0	110.0		0	2		Europa Huts (22). Soldier's Home (32).
13	-	-	1	1		1	-	1	1	1	301636	68.2	102.0	W.N.W. & W. W. & W.S.W.	0	2 2	Cloudy, hary Pine, bright	Camp, Windmill Hill (78).
15	-	-	-	-	1	-	-	-	1	-	30°143	67:0	112.0	N.B. & S.S.W.	0	2		South Barracks (2/23).
16	-	-		1		1	-	-	-	2	30*080	67.5	115.0	W.N.W. & W.	0	3		
17	-		-	1 -	-		1	1	1	1	29*741	66.2	110.0	W. & W.N.W. W.N.W. & W.S.W.	0.200	3.2	Fine Heavy showers	Camp, Windmill Hill (78).
19		-	-	-		-	-	2	-	2	30-053	62:7	102.0	W.N.W.	0 300	3	Fine, fresh breeze	
20		-	-	-	-	-	-	1	-	1	30-109	65'0	107.0		0	2	Fine, bright	- 5
21 22	-	-		- 1	1		-	-			30:015	65.0	100:0	S. & E.S.E.	0	2	Hary	
23	-	1.	-	-			-	-	-	-	29°062 30°073	61.7	110.0	W.S.W.&W.N.W. W.N.W.	1.400	3.2	Heavy rain Showery	
24		-	1	1	-	1-	-	-	1	1	30-214	65.2	100.0	W.D.W.	0	3	Fine, bright	Moorish Castle (R.A.)
25			-	-	T	-	-	-	-	-	30-240	61.2	110.0	E.	0	3	10	- 5
26		-				-	-	-	-	7	30*210	64.2	104'0	N.E. & E.	0	3	Fine	
1000			-								30*169	65'4	ACCRECATE VALUE OF			200		
27	- Total	- 1	21	76	18	12	24	-	163	105	30.105	00.0	97:0	W.N.W.	0	1.2		

TABLE II.—CHOLERA DEATH RETURN for the GIBRALTAR Epidemic of 1865, showing the Dates and DEATHS in each DISTRICT. (Prepared by the Police.)

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TABLE III.—Approximate Return of the fixed Population in each District of Gibraltar in 1865, previous to the Cholera.

District.	No. of Inhabitants.	District.	No. of Inhabitants.	District.	No. of Inhabitants.
Town District, No. 1	126 740 940 149 848 309 211 154 234 266 656 285 409 609 365	Town District, No. 16	473 493 346 446 18 646 424 16 1,066 1,097 798 862 32	South District, No. 1	337 179 769 53 110 212 123 60 43 135 2,021

#### RECAPITULATION.

		Fixed Population.	Alien Floating Population.		
Town Districts - South Districts - Catalan Bay - North Front -		13,018 2,021 239 184	1,732 96 62 139		
Total		15,462	2,029		

Total Fixed and Alien Population 17,491.

Gibraltar, 27th Nov. 1866.

F. SOLLY FLOOD, Police Office.

Table IV.—Showing the Number of Cases and Deaths from Cholera among the Civil Population of Gibraltar during the Epidemic of 1865. (Extracted from a Return by Dr. Rutherford, Deputy Inspector-General of Hospitals.)

4	Che	olera.		Che	olera.		Cho	lera.
Date.	Attacks.	Deaths.	Date.	Attacks.	Deaths.	Date.	Attacks.	Deaths.
1865.  ly 18	9 3 7 7 7 7		1865. Sept. 2	} 9 7 15 11 12 22 2 } 33 34 49 26 37 43 } 63 30 20 30 30 30 30 4 12 8	1 4 1 1 1 1 4 9 7 7 1 9 1 5 2 1 1 1 9 1 4 1 5 3 6 1 8 1 4 1 2 1 6 1 3 3 8 1 3 9 9 9 8 8 3	1865. Oct. 1 - 2 - 3 - 3 - 4 - 3 - 5 - 5 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	} 24 11 11 14 13 15 24 11 12 10 6 9 } 12 5 5 2 3 1	17 6 5 9 4 8 17 5 1 5 4 6 10 1 3 3 -

Table V.—Showing the Cases and Deaths from Cholera in Gibraltar during the Epidemic of 1865 (extracted from the Gibraltar Chronicle of November 9th, 1865.)

	Civil Po	pulation.	Mili	tary.	Conv	riets.	Manager will do	-	Civil Po	pulation.	Mili	tary.	Con	viets.
Date.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Date.		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1865.		Contract.		V one		8 1 4	1865.	1		Equipment !				
July 18	-	-	1	_	-	-	September 1		38	34	4	4	5	2
,, 19	-		-	1		-	1	8	,	1000				
,, 31	-	-	2	1	-	-	1 "	9	33	18	4	1	-	-
August 1	-	-	-	1	-	-		10	23	11	4	1	7	3
,, 3	-	-	2	1	-	-	,, 2	1	19	9	7	5	1	3
. 4	-	_	1	1	-	-		2	30	16	2	-	-	-
,, 9	-	12	1	-	_	_		3	27	10	3	5	3	3
, 10	-	-	7	-	-	-	10 mm	4	} 50	31	8	4	12	7
,, 11	1	1	-	1	-	-	,, 2			1000				
, 12	-	-	-	1	-	-	1	6	21	12	2	1	6	1
,, 13	1	-	-		-	-	,, 2	25-1	10	5	7	3	4	4
,, 14	-	-	1	_	-	-		18	10	7	1	3	2	2
" 15	_	-	-	1	-	-		19	7	7	7	2	1	1
,, 16	1	-	_		-	_	,, 3	0	8	1	3	1	2	2
,, 18	_	-	1	-	_	-	October	1	22	15	6	3	2	2
. 19	_	-	_	1	_	_	. 19	2	,				-	
,, 21	9	7	2	2	-	_	,,	3	10	5	2	1	1	1
, 22*	3	2	_	_	_	_		4	11	5	2	3	-	-
, 23	7	1	2	_	_		19	5	13	8	7	2	1	1
,, 24	7	5	_	2	_	_		6	12	3	4	4	1	1
,, 25	7	5	_	-	-	_	33	7	15	8	2	1	-	-
" 26	>7	_	1	1	_	_	,,	8	1					
,, 27	1	10000			12		10	9	} 21	14	6	4	3	3
,, 28	} 13	7	1	1	-	-		0	11	5	1	1	-	-
,, 29	3	6	_			_		1	12	1	1	_	-	-
, 30	4	1	1	1	-			2	10	5	1	-	-	-
,, 31	-	2	2	_	_	_		3	6	4	7	1	-10	-
September 1	4	1	_	1	_	_		4	9	6	_	1	_	_
	4	1			_			5	1	10	1		- Kund	phot
		-		2	196			6	} 12	10	1	1	-	-
	9	4	2	1	-	-		7	5	1	_	2	_	-
	7	1	1	_				18	5	3		1		MA
10000	13	9	3	5	2	1		19	2	3	1	1	_	-
-	11	4	1	_	-	1		20	3	_	_	2	_	_
" 8	11	9	2	2	. 1	I		21		1	_		_	_
	17	4			5	3		22	,			1		
10	17	11.	-		0			23	} 5	4	-	-	1	1
1000	29	16	4	4	4	3		24	1	1000	1		24	_
10	91	19						25		1	-	1	-	
10	31	13	5	1 2	3	2	100	26	T	1 70	1	1	mdin	
,, 13	47	19	7		2	2		5550	-	-	-	-		1
, 14	23	. 15	5	3	3	4	"	27	1	-	=	-	1	-
" 15 " 16	31 40	9	1	3	6	5	TOTAL		001	100	100		-	
		1.74	6	1	3	-	I DTAL	-	821	420	156	98	81	57

<sup>\*</sup> From this date the 22d August the Cases were daily reported up to 10 o'clock A. M.

Three fourths of the civil population suffered from diarrhea, which at one period was of a very bad type. More than 8,000 prescriptions were made up and dispensed gratis to upwards of 2,000 of the poorer classes.

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TABLE VI.—Showing the State of Health of the Civil Population of Gibraltar from January 1, 1864, to December 31, 1865.

Diseases of digestive organs attended as out patients at the Civil Hospital during these years, arranged month by month approximately.

Month	18.		Dyspepsia.	Colie.	Diarrhœa.	Dysentry.	Sickness or Vomiting.	Cholera.	All other Diseases.
186	4.		61						45
January	.6		53	27	10	- ,,	26	,,	1,135
February		-	43	17	11	7	2	39	1,000
March	. 1		62	28	13	3	14	. ,,	1,006
April -	1.	2	58	40	- 20	1_	17	,,	1,004
May -	-	-	89	56	44	13	12	,,	1,463
June -	1.	3	67	59	100	17	20	,,	1,452
July -		-	74	41	54	6	25	,,	1,465
August -		-	43	42	59	4	13	"	1,364
September		2	62	42	54	11	14		1,037
Detober		1	28	30	51	6	18	,,	1,043
November			43	31	28	- 6	- 22 -	"	849
December	3.	1	29	26	18	2	12	,,	746
				10 11			1 1		1 22
1865			2	of 12			1 1		OE -
January	1-	-	55	15	11	4	_ 14	,,	1,005
February	-	-	51	19	21	"	25	,,	886
March	-	-	48	32	20	1	23	,,	1,225
April -	1-	-	56	23	14	4	16	, ,,	1,032
May -	1-	1	80	40	62	8	18	7 ,,	1,285
June -	-	-	63	63	58	7	40		1,303
July -		-	67	39	53	2	45	* ,, 7	1,233
August		-	-56	45	121	4	47	,,	1,055
September	-		19	21	254	6	61	. 22	631
October	-		18	20	121	12	10	ei,, e	736
November	10-	1.5	22	27	7	5	23	2(2)	584
December			25	21	10	2	9	,,	638

Total Out Patients for 1864 - - 15,387\*
Total Out Patients for 1865 - - 13,676\*

CHS. TRENERRY, Surgeon.

<sup>\*</sup> These numbers represent not the new Cases but the visits of Patients to the Hospital.

Table VII.—Showing the Number of Cholera Cases and Deaths among the Civil Population of Gibraltar during the Year 1860.

75-		Politic);		Country.	-City	Dis-	House.	Leading	P
Dat	ie.	Names,		Country.		trict.	House.	Locality.	Remarks.
1	- 110	pesti a			-		1.02.015		1
186	0.			100				20	
August	14	Teresa Canepa -	-	Native	4	21	15	Town Range	Died.
23	15	John Terry -		British	2	22	6	Southport Street -	Died.
,,,	15	Maria Saduler -		Spain		22	4	8	Recovered.
73	15	Francisca Saduler .		Native		22	4		and the same
77	20	Mariana Vinent -	-			25	4	Arrengos Yard	
29	20	Emilia Casasde Ramirez	-	12001	-	9	23	Road to the Lines -	CERE!
29	22	Isabel Gimenez -		Spain	2	-	-	Civil Hospital	III ALL IN
	22	Maria Olivera -	941	Native		25	4	Arrengos Yard	Died.
**	22	Ana Serisola -	-	,,	2	26	32	Castle Road	Recovered.
111	23	Eduardo Apostol -	-		-1	5	42	Castle Road	Died.
**	23	Angela Apostol -	10	Spain	-	5	42	A strong chapter to 'W' 'W'	15 4 6
99	25	Lorenzo Corsanego		Native	-	5	.42		Recovered.
22	26	Pascual Palomino -	-	.,,		3	6	Waterport Street -	
99	26	Juan Farcon -	WINDS AT S	Genoa	-	5	42	Castle Gully Steps -	Died.
,,,	26	Francisco Balbi	100	Native	-	6	15	Main Street	39
**	26	Teresa Macedo -	-		-	27	18	Willis's Road	- N R
27	29	Carlos Gaibizo		Genoa	2	13	29	City Mill Lane	12 " to OI
19	30	Antonio Guerzi .		Native	-	13	29	Civil Hospital	
10	31	Guillermo Gordon	-1 0		- 1	25	57	Flat Bastion Road -	- H
10	31	Maria Martinez -			-	25	46	3 1-100 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Recovered.
to	31	Maria Viagas -	100		2		200	Civil Hospital	
10	31	Mercedes Tortabuey			. 1	5	26	Castle Road	
19	31	Bartolomew Montobio				5	6	Castle Ramp	Died.
eptemb		Harriett Skelton -	-	British		25	43	Lopez's Ramp	
22	3	Maria Ramirez -		Native	1	2	23	Road to the Lines -	Recovered.
***	3	Manuela Melligan		20	-	24	42	Prince Edward's Road -	
20	3	Catalina Cerisola -		10		25	41	Lopez's Ramp	,
20	3	Teresa Pufino -				13	14	Gunner's Lane	7
20	4	Josefa Lagos -			2	27	1	Willis's Road	04 2 04
198	. 4	Francisca Morales			-	25	1	Bruce's Gully	
20	4	Eliza C. Byrne -		British	211	21	99	Town Range	Died.
30	9	Bernardo Nussa -		Spain		25	58	Flat Bastion Road -	Recovered.
22	9	Baldomero Chappoli		Native		25	42	Lopez's Ramp	Died.
29	9	Manuel Nussa -	- 30	100	1	25	58	Flat Bastion Road -	Recovered.
311	9	Catalina Lambias -		Spain	1	5	17	Castle Ramp	Recovered.
94	. 10	Josefa Alvarez -		Native		25	10	Arrengos Yard	
20	15	Rosa Lapeen -	-55	,,	- 1	25	-	Civil Hospital -	Died.
	15	Francisco Marrero			2	26	94	Willis's Road	
20	16	Liberata Escobar -	-			24	44	Prince Edward's Road -	100 m
20	17	Josefa Laltora -				25	16	Lime Kiln Gully	10 m
)ctober	4	Antonio Santos -	-	11	-	8	7	Rosia South	" " 00
27)	9	George Sherriff -		,,	1	14	32	Frasers Ramp	,,
89	20	Catalina Cassiaro -				25	26	Willis's Road	
39	27	Felomena Payas -	-	,,		25	26		Recovered.
10	29	Hannah Benniyes -	-			22	1	Convent Place	Water and
**	31	Diego Sanchez -		Spain	-	15	7	Giro's Passage	TOTAL TOTAL STATE OF THE PARTY.
lovemb	er 1	Ana Ma. Gonzales -	7	Native	4	-	-	Civil Hospital	Recovered
57	2	Juan Anto. Reyes		Portugal					Died.
111	2	Josefa Ferrando -	Million 12 5	Native	-	3	17	Turnbulls Lane	19
23	2	Antonio de La Cruz				15	7	Girv's Passage	70
	3	Manuel Martinez -	Fig. 1.	Portugal		3	28	Engineers Lane	
111	3	Magdalena Ferrando		Native		3	17	Turnbulls Lane	1
22	8	Geronima Grillo -	200 13	Genoa	-		-	Civil Hospital	
111	8	Constancia Rodriguez		Native		25	51	Flat Bastion Road -	"
,11	10	Jose Viagas -		***	1 4 9	3	17	Turnbulls Lane	Recovered.
.,,	10	Flora Bustos -				16	6	Church Street	The state of the s
.,,	12	Federico Catania		"		2	36	Road to the Lines -	2 0
33	14	Adela Bustos -		"		16	6	Church Street	Died.
,,,	14	Amalia Bustos -			- 11	16	6	12008	Recovered.
. 10	15	Salvador Ramirez -			. III	-		Northfront -	
	15	Jose Barea -		Spain	13	17	6	Gunner's Lane	Died."
10	15	Rosa Besura -		Native		15	9	Giro's Passage	Recovered.
	23	Juan Conti -	10 00			27	26	Caballeros Buildings -	
"	23	Moses Attias -			1	7	12	36.1.0	27 10
	23	Francisco Ruiz -	Balles FL	Spain	1 59 7	16	6	60 1 m	Died."
**	30	David Attias -	1 2	Native	. []	21	9		
ecembe		Gimol Attins -	110. 11.1	A TOTAL TOTAL	1	21	9	George's Lane	
22	1	Coty Attias -	200	"	1	21	9	1 " 11.5 1 16 1	Recovered.
22	1	Moses Attias -		"		7	9	Main Street	Died."
2.7		The second second	200	39	- The St. Co.		- 2	and control	

#### RECAPITULATION.

		m	
		Total	69
120000	i tit	- 1	41
		F   60	

Table VIII.—Showing the Localities of Deaths from Cholera among the Civil Population of Gibraltar in the year 1865 (prepared by the Police).

Ī				atls.	Place De	ee of	u u	Same				1		aths.	Plac Dea			same
Number	Date.	District.	. House.	No. of Deaths.	Patio.	Room.	Population Patio.	Deaths in Patio.	Number.	Di	ate.	District	. House,	No. of Deaths.	Patio.	Room.	Population Patio.	Deaths in Patio.
1 2 3 4 5	1865. Aug. 11 " 19 " 20 " 20 " 21	Bay N. F. N. F. 17 N. F.	Lighter Lime Kiln Washings-sheds 14 Washings-sheds	1 1 1 1 1	_ _ _ 1	1 1 1	56	2	71 72 73 74 75	18 Sept		19 25 26 26 27	7 4 13 22 26	1 1 1 1	1 1 1 -	1 - 1	38 - 45 -	6 6 1 3 4
6 7 8 9 10	" 21 " 21 " 21 " 22 " 22	N: F. 11 27 24 27	do. 37 18 41 28	1 1 1 1 1	- 1 1 1 1	1	35 51	- 2 2 -	76 77 78 79 80	23 19 19 19	10 10 10 11 11	27 3 South 5 do. 5 do. 3	26 35 5 5 29	1 1 1 1 1	1 1 1 1	1	14 23 23 23	4 2
11 12 13 14 15	" 23 " 23 " 23 " 23 " 23	N. F. N. F. 7 14 21	Comm <sup>t</sup> sheds Devil's Tower 11 37 11	1 1 1 1 1		1	8 18 130	- 2 1 3	81 82 83 84 85	39 39 39 30 23	11 11 11 11 11	3 3 3 21 3	29 41 52 21 47	1 1 1 1 1	1 1 1 1 1	11111	23 69 41 —	2 1 8 4 1
16 17 18 19 20	" 23 " 24 " 24 " 24 " 26	25 N. F. 17 24 17	Slaughter 14 2 1	1 1 1 1 1	1 -1 -1	- I - I	20 56 44	1 - 2 1 1	86 87 88 89 90	31 21 20 50 10	12 12 12 12 12 12	3 3 3 5 11	43 49 51 38 27	1 1 1 1 1 1	1 1 1 1 1	11111	42 6 41 14 33	3 2 3 1 1
21 22 23 24 25	" 27 " 27 " 27 " 27 " 28	11 16 19 19 19 5	25 27 9 9 29	1 1 1 1 1	1 1 - 1	- 1 -	56 20 40 — 23	3 1 4 4 1	91 92 93 94 95	39 39 39 39	19 19 19 19 19	9 24 24 24 24 25	4 14 44 44 4	1 1 1 1 1	1 1 1 -	1	12 6 97 97	1 1 5 5 6
26 27 28 29 30	" 28 " 28 " 28 " 29 " 29	14 15 25 24 C. Bay.	5 7 46 G. A. 9	1 1 1 1 1	1 1 1		6 48 34 —	1 2 2 5 —	96 97 98 99 100	22 23 23 21 22	12 12 12 12 12 12	25 26 26 27 27	45 15 21 11 14	1 1 1 1 1	1 1 1 1 1		8 19 38 11 13	2 1 5 3 1
31 32 33 34 35	" 30 " 30 " 31 Sept. 2	5 22 26 25 12	34 18 23 5 17	1 1 1 1 1	1 1 1 1	- 1 1	10 - 47	3 1 2 3 2	101 102 103 104 105	27 29 29 29	12 12 12 12 12 12	27 27 27 27 27 19	23 23 27 35 7	1 1 1 1 1		1	16 38	10 10 4 12 6
36 37 38 39 40	" 3 " 3 " 3 " 4	N. F. N. F. 3 25 N. F.	Garden Slaughter 52 5 Devil's Tower	1 1 1 1 1 1		1 1 1 1	- 69 -	- 8 3 -	106 107 108 109 110	33 33 33 33 33	12 13 13 13 13	7 South 1 5 16 18	4 3 3 2 9	1 1 1 1 1	1 1 1 1 1	11111	16 22 20 17 12	1 1 1 1
41 42 43 44 45	" 4 " 5 " 5 " 5	25 26 3 25 3 South	31 19 52 10 23	1 1 1 1 1	1 1 1 1 1		7 6 69 94 143	1 8 7	111 112 113 114 115	"	13 13 13 13 13	24 24 24 25 26	1 15 25 10 17	1 1 1 1 1	1 1 1 1 1	11111	171 8 58 94 55	5 2 1 7 2
46 47 48 49 50	, 6 , 6 , 6	3 do. N. F. 5 16 18	Open Air 34 8 1	1 1 1 1 1	1 1 1 1		10  30 59	- 3 1 2	116 117 118 119 120	" " "	13 13 13 13 13	26 27 27 27 27 3 South	21 5 26 35 35	1 1 1 1 1	1 1 - 1 1	- 1 -	38 - - - 14	5 5 4 12 —
51 52 53 54 55	9 6 9 6 9 7 9 7 9 7	24 26 3 3 14	42 C. H. 48 48 15	1 1 1 1 1	1 1 1 1	11111	61 	3 3 3 1	121 122 123 124 125	19 11 11 12	13 14 14 14 16 14	5 do. 5 18 25 26	5 8 1 5	1 1 1 1 1 1	1 1 1 1 1		23 10 58 — 20	1 2 3 7
56 57 58 59 60	; 7 ; 7 ; 7 ; 8 ; 8	15 18 27 N. F. N. F.	7 13 11 Slaughter do.	1 1 1 1 1	1 1	- - 1 1	47 7 11 —	31.311	126 127 128 129 130	23 21 11 21		26 27 27 27 1 South 5 do.	22 11 25 5 20	1 1 1 1 1	1 1 - 1	- 1 -	45 11 — 17	3 3 2 —
61 62 63 64 65	" 9 " 9	5 27 3 South 3 do. 3	34 23 13 23 40	1 1 1 1 1	1 1 1 -	1 - 1	15 143	3 10 — — 1	131 132 133 134 135	"	15 15 15 15 15	5 5 14 14 21	6 17 2 16 16	1 1 1 1 1	1 1 1 1 1	111111	20 18 30 14	3 1 1 2 1
66 67 68 69 70	" 9 " 9 " 9 " 9	3 5 12 7	49 51 43 17 11	1 1 1 1 1	1 1 1 1 1	11111	6 	2 3 1 2 2	136 137 138 139 140	" " "	15 15 15 15 15	22 23 24 24 25	G <sup>1</sup> Quarters 1 1 4	1 1 1 1 1 1	1 1 1		12  171 171	1 5 5 6

Table VIII.—Showing the Localities of Deaths from Cholera among the Civil Population of Gibraltar in the year 1865—continued.

	100			th.	Plae	e of	e	9	Cont	li la a			ths.	Plac	e of	g	same
Number.	Date.	District.	House.	No. of Deaths.	Patio.	Room.	Population ; Pario.	Deaths in s Patio.	Number.	Date.	District.	House.	No. of Deaths.	Patio.	Room.	Popelation Patio.	Deaths in s Pariso.
141 142 143 144 145	1865. Sept. 15 , 15 , 15 , 15 , 15 , 15	25 26 27 27 27	18 21 10 18 26	1 1 1 1 1	1 1 1 1 -		23 38 	1 5 3 2 4	216 217 218 219 220	Sept. 20 ,, 20 ,, 21 ,, 21 ,, 21	27 16 2 3 5	5 6 8 50 11	1 1 1 1 1	1 1 1 1 1	11111	29 28 25 33 24	5 1 1 3 1
146 147 148 149 150	" 15 " 15 " 15 " 16 " 16	27 27 24 3 5	27 35 G. A. 52 6	1 1 1 1 1	1 1 1 1 1		16 238  69 20	4 12 5 8 3	221 222 223 224 225	, 91 , 21 , 21 , 21 , 21	12 12 19 21 21	3 3 7 11 21	1 1 1 1 1	1 1 1 1 1	11111	39 39 38 130 41	2 2 6 3 4
151 152 153 154 155	, 16 , 16 , 16 , 16 , 16 , 16	11 11 16 19 25	44 42 9 L. G. 6	1 1 1 1 1	1 1 1 1 1		24 24 20  16	3 3 1 —	226 227 228 229 230	, 21 , 21 , 21 , 21 , 21	16 26 26 27 Bay	10 16 25 24 Lighters	1 1 1 1 1	1 1 -	1	22 76 74 —	1 1 3 1
156 157 158 159 160	, 16 , 16 , 16 , 16 , 16	25 25 27 27 27	7 57 5 12 25	1 1 1 1 1 1 1 1	1 1 1 1		47 13 29 27	1 1 5 2 2	231 232 233 234 235	9 22 9 29 9 20 9 22 9 22	3 3 11 15 19	50 52 39 17 5	1 1 1 1 1	1 1 1 1 1	11111	33 69 31 12 24	3 8 1 3 1
161 162 163 164 165	, 16 , 16 , 17 , 17 , 17	27 3 South. 3 3	27 15 36 52 32	1 1 1 1 1 1	1 1 1 1	11111	16 5 16 69 50	2 8 2	236 237 238 239 240	, 22 , 22 , 22 , 22 , 22	21 26 26 26 27	21 12 17 27 5	1 1 1 1 1	1 1 1 1 1	11111	41 10 55 9 29	4 1 2 2 5
166 167 168 169 170	" 17 " 17 " 17 " 17 " 17 " 17	17 17 24 24 25	9 22 15 43 4	1 1 1 1 1	1 1 1 1 1 1		25 10 8 29	1 1 2 1 6	241 242 243 244 245	, 22 , 22 , 22 , 23 , 23	27 28 6 South, 3 3	27 Garden 10 16 50	1 1 1 1 1	1 1 1 1 1	11111	16 	4 - 9 3
171 172 173 174 175	, 17 , 17 , 17 , 17 , 17	25 26 26 27 27	10 21 24 3 7	1 1 1 1 1	1 1 1 1	11111	94 38 70 94 39	7 5 5 1 2	246 247 248 249 250	, 23 , 23 , 23 , 23 , 23	3 11 19 21 25	52 25 9 11 4	1 1 1 1 1	1 1 1		69 56 40 130	8 3 4 3 6
176 177 178 179 180	" 17 " 17 " 17 " 17 " 17 " 18	27 27 27 6 South,	23 23 23 6 6	1 1 1 1 1		1 1	- 40 20	10 10 10 —	251 252 253 254 255	, 23 , 23 , 23 , 23 , 23 , 23	26 26 27 27 27	25 30 12 13 35	1 1 1 1 1	1 1 1 1	11111	74 9 27 38 238	3 1 2 1 12
181 182 183 184 185	" 18 " 18 " 18 " 18	11 11 18 18 18	30 42 2 4 8	1 1 1 1 1	1 1 1 1 1 1	11111	11 24 39 10 12	2 3 1 1 2	256 257 258 259 260	, 23 , 23 , 23 , 24 , 24	27 27 24 4 2	35 35 G. A. 12 13	1 1 1 1 1	1 1 1 1	11111	238 238 — 10 5	12 12 5 1
186 187 188 189 190	" 18 " 18 " 18 " 18	19 24 25 25 25	7 30 10 46 48	1 1 1 1 1	1 1 1 1	- - - 1	38 33 94 34	6 1 7 2	261 262 263 264 265	,, 24 ,, 24 ,, 24 ,, 24 ,, 24	7 21 25 25 25	5 21 24 26 44	1 1 1 1 1 1	1 1 1 1 1	11111	36 41 14 10 20	3 4 1 1
191 192 193 194 195	" 18 " 18 " 18 " 18	26 27 27 27 27 3 South.	22 2 23 35 36	1 1 1 1 1	1 1 - 1 1	- 1	39 24 238	3 1 10 12	266 267 268 269 270	" 24 " 24 " 24 " 24 " 24	27 27 27 27 27 27	7 33 84 34 35	1 1 1 1 1	1 1 1 1	11111	39 	2 4 2 2 2 12
196 197 198 199 200	" 19 " 19 " 19 " 19 " 19	9 18 19 19	12 8 7 7 1. G.	1 1 1 1 1	1 1 1 1 1	11111	54 12 38 38 —	9 2 6 6	271 272 273 274 275	, 24 , 24 , 24	27 Bay. 3 South. 3 do. 3	35 Lighters 17 35 16	1 1 1 1	1 1 1 1	11111	238 10 40	12 1 - - 2
201 202 203 204 205	" 19 " 19 " 19 " 19 " 19	11 22 24 25 26	25 15 3 10 32	1 1 1 1 1	1 1 1 1 1	11111	56 26 10 94 14	3 1 1 7 1	276 277 278 279 280	n 25 n 25 n 25 n 25 n 25 n 25	3 11 11 25 26	17 30 23 45 24	1 1 1 1 1	1 1 1 1		45 11 8 74	1 2 1 2 6
206 207 208 209 210	" 19 " 19 " 19 " 19	26 26 27 27 27	25 27 1 23 35	1 1 1 1 1	1 1 1 -	- - 1	21 9 24 — 238	3 2 1 10 12	281 282 283 284 285	" 25 " 25 " 26 " 26 " 26	N. F. N. F. 15 21 22	Slaughter Cattle sheds G. Quarters 7 12	1 1 1 1		1		94 4
211 212 213 214 215	" 20 " 20 " 20 " 20 " 20 " 20	11 14 24 25 27	24 3 41 10 4	1 1 1 1 1 1	1 1 1 1	11111	38 20 51 94 24	3 2 2 7 1	286 287 288 289 290	" 26 " 26 " 26 " 26 " 26	24 24 26 27 27	1 G. A. 24 23 35	1 1 1 1	1 1 1 -	- - 1 -	171 74 238	5 5 10 12

19617.

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Table VIII.—Showing the Localities of Deaths from Cholera among the Civil Population of Gibraltar in the year 1865.—continued.

				eaths.	Plac Des	e of	ii ii	same			1		and the state of	eaths.	Plac Dea			same
Number.	Date.	District.	House.	No. of Deaths.	Patio.	Room.	Population Patio.	Deaths in Patio.	Number.	Da	te.	District.	House.	No. of Deaths.	Patio.	Room.	Population Patio.	Deaths in Patio.
291 292 293 294 295	1865. Sept. 26 ,, 27 ,, 27 ,, 28 ,, 28	South 7 27 9 16	M. P. W. M. H. 5 35 8 12	1 1 1 1 1	1 1 1 1 1		36 238 20 36	3 12 1	351 352 353 354 355	186 Oct. "	5. 7 7 7 7 7 7	10 13 17 21 22	11 17 3 14 8	1 1 1 1 1	1 1 1 1 1	11111	14 9 23 80 20	2 1 1 1 2
296 297 298 299 300	,, 28 ,, 28 ,, 28 ,, 28 ,, 28	21 25 3 3 5	6 10 36 52 27	1 1 1 1 1	1 1 1 1 1	11111	24 94 20 69 16	1 7 2 8 1	356 357 358 359 360	" " " " " " " " " " " " " " " " " " " "	7 7 8 8	24 27 N. F. 4 14	42 10 Cattle Sheds 25 18	1 1 1 1	1 - 1 1	- 14 1 -	61 — — — 25	3 3 — 1 1
301 302 303 304 305	,, 28 ,, 28 ,, 28 ,, 28 ,, 28	22 25 26 27 4 South	12 41 23 33 6	1 1 1 1 1	1 1 1 1		22 58 14 —	4 2 2 4	361 362 363 364 365	" " "	8 8 8 8	22 24 27 27 6	8 1 19 23 19	1 1 1 1 1	1 1 1 -	11111	20 171 39 — 14	2 5 1 10 2
306 307 308 309 310	, 28 , 29 , 29 , 30 , 30	N. F. 2 1 14 14	Comm <sup>t</sup> Sheds 10 5 28 29	1 1 1 1 1	1 1 1 1	1	30 20 22 19	3 1 1 2	366 367 368 369 370	"	9 9 10 10 10	1 South. N. F. 3 14 19	Slaughter P. Baths 29 9	1 1 1 1	1 1 1 1	- 21 - 1 - 1	4 - 19 40	
311 312 313 314 315	, 30 , 30 , 30 , 30 , 30	17 27 3 South 3 do. N. F.	29 33 18 36 Comm <sup>a</sup> Sheds	1 1 1 1 1 1	1 1 1 1		29 - 8 -	1 4 - -	371 372 373 374 375	"	10 11 11 11 11	26 7 11 13 13	24 5 24 36 G. Quarters	1 1 1 1 1	1 1 1 1 1 1	11111	70 36 38 16	6 3 3 1 1
316 317 318 319 320	Oct. 1 " 1 " 1 " 1 " 1	5 11 26 7 South do.	4 24 26 10 G¹ Quarters	1 1 1 1 1	1 1 1 1 1		36 38 21 5	2 3 1 —	376 377 378 379 380	27 25 29 29	11 12 12 12 12 12	19 2 15 17 25	L. G. 12 17 2 4	1 1 1 1 1	1 1 1 1 -	11111	30 12 52	2 3 3 6
321 322 323 324 325	" 2 " 2 " 2 " 2	2 16 24 25 26	10 7 44 41 21	1 1 1 1 1	1 1 1 1 1		30 20 97 58 38	3 1 5 2 5	381 382 383 384 385	" " "	13 13 13 14 14	15 21 1 South. 5 11	G. Quarters 22 5 4 34	1 1 1 1 1	1 1 1 1 1	111111	40 	1 1 - 2 1
326 327 328 329 330	" 3 " 3 " 3 " 3	2 3 15 18 24	23 8 2 24 42	1 1 1 1 1	1 1 1 1 1	11111	60 24 20 13 61	2 1 1 1 3	386 387 388 389 390	19 18 19 19	14 14 15 15 15	24 N. F. 2 9 15	Garden W. B. 12 12 12 17	1 1 1 1 1	1 1 1 1	111111	97 	5 - 2 2 2 3
331 332 333 334 335	; 4 ; 4 ; 4 ; 4	3 13 21 25 3 South	23 20 7 47 37	1 1 1 1 1	1 1 1 1 1		60 9 35 22 6	2 1 2 1	391 392 393 394 395	39 39 39 39	15 15 15 16 16	22 22 24 6 10	12 12 7 13 11	1 1 1 1 1	1 1 1 1	data t	22 22 — 14 14	4 4 1 1 2
336 337 338 339 340	" 4 " 5 " 5 " 5	24 6 13 19 17	G. A. 19 9 I. G. 2	1 1 1 1 1	1 1 1 1 1	11111	13 7 	5 2 1 — 3	396 397 398 399 400	11 12 12 13	16 17 17 17 17	3 South. 1 do. 3 14 17	6 11 24 32 2	1 1 1 1 1	1 1 1 1 1	111111	60 50	- 1 2 3
341 342 843 344 345	,, 5 ,, 5 ,, 6 ,, 6	27 Bay 2 3 3	33 Lighters 10 31 51	1 1 1 1 1	1 1 1 1	11111	30 32 41	4 - 3 1 3	401 402 403 404 405	11 12 12	18 18 20 22 22	24 27 9 1 South.	44 5 3 19 16	1 1 1 1 1	1 1 1 1 1	1 telefit		5 5 1 —
346 347 348 349 350	" 6 " 6 " 6 " 7	14 26 26 26 26 2	3 5 11 24 23	1 1 1 1 1	1 1 1 1 1	11111	20 10 28 70 60	2 1 1 6 2	406 407 408	;; ;;	22 22 24	C. Bay. 26	10 14 24	1 1 1	1 1	1 -	70	3 1 6

Table IX.—Giving the Number of Deaths from Cholera among the Civil Population of Gibraltar in each affected House.

#### A .- North Front.

Place,	Deaths from Cholera.	Place.	Deaths from Cholera.
Slaughter Houses Washing Sheds Commissariat Sheds Cattle Sheds	6 3 3 2	Devils Tower Gardens	2 2 1 1

#### B .- Town of Gibraltar.

No. of District.	No. of House.	Deaths from Cholera.	No. of District.	No. of House.	Deaths from Cholera.	No. of District.	No. of House.	Deaths from Cholera.
1	3		13-cont.	Govt. Qrs.	1	24-cont.	30	1
agen nets	5	mente pour si	14	2	1	"	41	2
2	8	mount 1st de	29	3	2	219	42	3
19	10	3	"	5	1	211	43	1
39	12	2	,,	15	1	"	44	5
39	13	1	"	16	2	25	4	6
25	23	1	27	18	1	11	5	3
29	33		"	28 29	1	"	6	1
3	8 16	1 2	25	32	2 2	29	7 10	1
20	17	i	"	37	î	29	24	
29	23	i	15	2	i	"	26	1
Manage Co.	24	1		7	2	,,	31	1
	29	2	"	Govt. Qrs.	2	"	41	2
29	> 31	1	"	17	3		44	1
"	36	2	16	2	1	"	45	2
39	40	1	30	6	1	19	46	2
27	41	1	33	7	1	25	47	1
29	47	1	20	8	1	.39	48	
39	48	3 2	30	10	1	"	57	1
29	50	3	,,,	12	1	26	61 5	1
29	51	3	22	27	i		10	1
29	52	8	17	1	i	39	11	1
4	12	1		2	3	"	12	
	25	1	"	3	1	19	13	A CONTRACTOR OF THE PARTY OF TH
5	3	2	23	9	1	"	15	1
"	4	2	33	14	2		16	1
"	6	2	23	22	1	39	17	2
39	11	1 Indian	7	29	1	39	18	1
39	17	1	18	1	2	10	19	1
19	27	un au Pariod.	10	2	D 11 1 1 1 1 1	19	21	5
10	29	dina dina	20	1016 4 10 8	Mgmal out	in the same of	22	3
39	34 38	rolling dr il	W Jule Manie	8 9	mand 2 rand a	11 10 20	23 24	6
39	43	î	23	13	iwello	to heatrons	25	worlda
6	13	î	27	24	1	29	26	1
,,	19	2	19	5	1	22	27	2
7	5	3		7	6	23	30	1
200	11	2	Samilatine.	9	HIN 4 He L		32	1
8 .01	caclic other	merts Trank	THE SHOULD	Library Gardn.	ib of hone	2011 95	G. H.	1
9	3	1	20		Fert 18 75/19 3 AV	27	Indiana I	1
29	4	1	21	6	1	19	2	113
29	8 Baths	in 10 va	, a	7	3	19	3	
29	12	2	BOTH RESIDEN	14	7 3	10 10	5	5
10	11	2	10	16	1	19	7	5 2
11	24	3 115	n viin	21	4	"	10	3
15000 I I I I I I	25	3	20 M	22	1		11	3
25	27	1	22	4	î	19	12	2
30	30	2	10	8	2	19	14	1
27	33	1	33	12	4	39	18	2
30	34	1 313	10	15			19	hand I
29	37	1	n	18	1 1	.19	23	10
n	39	1	23	Govt. Qrs.	1	77	24	1
19	42	1	24	1 2	5	25	25 26	2 4
12	3	2 01	"	3	1	"	27	4
33	17	2 1 2 2	" 01	7	1 -	missin"ald	28	1
13	19 1	1. 01	1 " 8	Gavinos Asylm.	- 5 -	"	33	4
19	17	1 000	0	14	1	,,	34	4 2
10	20	1 000	70 00	14 15	2		35	12 1
200	36	1 35		25	* 1	28	Garden	

Chemist of the War Department.

Table IX. -- Giving the Number of Deaths from Cholera among the Civil Population of Gibraltar in each affected House-continued.

C	Som	11.	Dis	dries	ŧ.

No. of District.	No. of House.	Deaths from Cholera.	No. of District.	No. of House.	Deaths from Cholera.	No. of District.	No. of House,	Deaths from Cholera.
1 2 3 3 2 2 2	5 10 11 19 ——————————————————————————————	1 1 1 1 1 1 1	3—cont.	17 18 23 26 35 36 37 6	1 1 2 1 3 2 1 1	5 6 7 7 8, 9, 10	5 20 6 10 4 10 Govt. Qrs.	3 1 1 1 1 1 1 1

TABLE X .- PARTICULARS of the WELLS on the NORTH FRONT.

-		2.14.04.245	241 2 2110	HUULARS OF THE WELLS OF	THE TRAINING THE PROPERTY.
No. of Well.	Depth of Well below Ground level.	Quantity of Water in October 1865.	Bottom of Well below High Water,*	Locality.	Remarks.
1 2 3 4 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19	ft, in.  10 0 9 6 11 0 11 0  10 0  12 0 11 8 11 6 10 3 14 6 14 6 17 0 9 0 9 6 11 0 9 6 9 6 11 0 9 6	ft. in. 3 5 2 6 1 9 3 4 4 0 4 6 5 0 6 6 6 4 9 7 3 2 6 3 0 4 9 2 6 3 3 2 6	ft. in.  2 1 2 0 3 4 3 2 2 9 4 2 3 8 4 3 3 5 6 3 8 6 5 1 10 1 9 3 10 2 0 2 0 1 9	In a line with the watering jetty   A well with two pumps on the roadside 83 yards from the beach.  Near the old north front guard house.  These are all in the Government gardens  Near the cemetery.  In the mortar yard.	No. 1. is very largely used by the civil population in the town; No. 2. by the troop encamped close to it in the summer time; and No. 3. for supplying water to ships.  This well is used almost exclusively for the supply of all the troops in Gibraltar during the summer.  Nos. 6. to 12. are about 10 feet in diameter; they are worked by bullocks, and the water chiefly used for irrigation.  No. 14. is used for drinking by the people living round it.  The others, 13, 15, 16, and 17, are apparently never used.

<sup>&</sup>quot; The difference between high and low water is 4 feet (about).

The foregoing is compiled from surveys taken in October 1865.

5th December 1866. EDW. ROBERTS.

#### No. XI.

SIR.

Chemical Department, Woolwich, 13th October 1866.

In reply to your letter of the 29th ult., I have the honour to report, for the information of the Secretary of State for War, that the samples of water forwarded for examination by the General Officer Commanding at Gibraltar have been submitted to analysis, with the following results.

The waters were described as follows:

Contract No. 1. from well near the road.

" No. 2. " well centre " No. 3. " well jetty, which supplies the shipping. The three waters were not found to differ in any important respects from each other; No. 1. was, however, slightly the purer of the three.

All three waters are very hard, but are considerably softened by boiling. They are greatly superior in quality to the waters previously received for analysis from Gibraltar, excepting that from Swart's reserve well.

The organic matter did not furnish evidence of being decidedly objectionable in character, and the proportions of nitrates are small as compared to those found in other samples of water from Gibraltar. The numerical results furnished by the analysis are as follows:

			I.	II.	III.
Total dissolved constituents per	gallon.	-	36 grs.	41 grs.	47 grs.
Carbonate of Lime -	-	-	11 · 14 grs.	9.64 grs.	10.94 grs.
Sulphate of Lime -	-	-	4.08 ,	8.16 ,,	9.20 ,,
Nitrate of Lime -	-	-	1.75 "	1.75 ,,	2.00 ,,
Carbonate of Magnesia		-	6.30 ,,	5.77 ,,	7.87 ,,
Chloride of Sodium -	-	100	10.63 ,,	13.10 "	14.16 ,,
Organic Matter -	-	-	1.50 ,,	2.00 "	2.10 "
Hardness on Clark's scale		-	23°	26°	30°

I have, &c. F. A. ABEL,

The Under Secretary of State for War.

Chemist of the War Department.

No. XI. B.

Peninsular and Oriental Steam Navigation Company, Offices, 122, Leadenhall Street, London, E.C. 9th November 1866.

SIR,

I have the honour to acknowledge the receipt of your letter of 24th ultimo (Gibraltar. 2.) stating that the question of improving the supply of water to merchant vessels at Gibraltar is under consideration, and making certain inquiries, in connexion with this matter, as to the alleged appearance of cholera on board one of this Company's steamers which had received water from the present source of supply.

In reply, I am instructed to transmit to you the enclosed copy of a report on the subject from the Company's Medical Inspector, Dr. Alexander Beattie, giving the information asked for in your letter.

I am also instructed to enclose a copy of the report of Dr. A. S. Taylor, to whom a bottle of the water obtained from the same source from which the "Poonah" was supplied was forwarded by the Director for analysis.

(Signed) I have, &c.

C. W. Howell,

Secretary.

The Under Secretary of State for War, War Office, S.W.

> Peninsular and Oriental Steam Navigation Company, Offices, 122, Leadenhall Street, London, E.C., 6th November 1866.

SIR,

The letter from the War Office, dated 24th ultimo, to your address having been laid before me, I have the honour to submit the following statement in reply, so far as the information required can be given by me.

can be given by me.

1st. The name of the steamer on board which the water supposed by Dr. Simon (from the analysis of it made by Professor Parkes of Netley Hospital) to have been the cause of two fatal cases of

cholera which occurred among the crew was the "Poonah."

2d. The two iron tanks in the fore-part of this steamer, each capable of holding about 1,200 gallons of water, were filled up at Gibraltar from casks sent by the Company's agent, and the

date of watering was the 5th June last.

3d. The "Poonah" left Alexandria at 11 a.m. of 28th May, and during the voyage to Southampton only one case of dysentery and one of cholera are reported in the surgeon's list. The former occurred in a second-class passenger, ill at date of leaving Alexandria, and discharged on arrival at Southampton. The latter was seized on the 9th of June when the vessel was in the English Channel, and died the same day. He was one of the firemen of the ship, and was a delicate weakly man. He complained for the first time of being ill to a companion about \(\frac{1}{4}\) to 4 o'clock a.m. of the 9th. The surgeon saw him at 6 o'clock. He performed his work in his evening watch from 4 to 8 o'clock of the 8th, and sat up with his messmates at supper till 10 o'clock. He partook copiously of water on coming up heated from the engine-room. The night was chilly and he no doubt sustained a nervous shock.

4th. Another fireman, named Palmer, not known to be ill before the arrival of the "Poonah" at Southampton, was reported to have suffered from severe diarrhea from the day of his arrival. He lived with his family on shore, got some medicine from a druggist on the 12th, went to work on board ship on 13th, was sent for about 4 p.m. of that day to see one of his children reported

to him to be dying, he remained at home, and died on the 19th.

5th. Under instructions from the Directors as reported to you for their information, I visited the "Poonah" on the 30th June, and made inquiry into the state of the crew and the vessel. I ascertained that the water in the two fore tanks had been used by the whole of the crew and second-class passengers, in number 118 persons, on the voyage homeward. Some others of the firemen, and these only, had suffered slightly from relaxation of the bowels, but did not apply to the surgeon, nor cease from work, and they all were healthy and well when I inspected them.

6th. The meteorological condition of atmosphere, as shown by the register of the Ordnance Survey Office, Southampton, from 8th to 14th June exhibited considerable fluctuation of barometer and thermometer, and the electric disturbance which prevailed was more marked, and sufficient to disturb

the nervous system and occasion increased intestinal secretions.

7th. The analysis of samples of water taken from the source from which the steamers are supplied at Gibraltar, made by Professors Miller and Alfred Taylor, prove the water to contain an excess of

carbonate of lime and magnesia, and also a small quantity of organic matter.

8th. Measures ought to be adopted to obtain, if possible, water of a better quality for the ships. If this cannot be done, the several means of purification by filtration, boiling, &c., which have been represented to the directors, should be carefully used.

(Signed) I am, &c.
ALEX. BEATTIE, M.D.,
Medical Inspector.

C. W. Howell, Esq., Secretary, P. & O. S. N. Coy. 50

TABLE XII.—STATISTICAL RETURN showing the SANITARY CONDITION of DWELLINGS of the CIVIL POPULATION

A.—North

Fata	l Cas	ses of Choleva.	trality autiford	Bun't	a rolling	may la	of social	State	State in	State	h aven I	v	Vindows.
Age	Sex	Date of Death.	Number of District () and Number or Designation of House where attacked.	La l	State whether the Street or Court was "Drained" or "Un- drained,"	State whether the Surface was "Properly paved," or "In- different," or "Bad."	"In-	whether any Nuisances were complained of at or before the Time of Attack.	which Floor of the House the Patient was attacked: "Basement," "Ground Floor,"	whether the Walls, Ceilings, or Floors of the House were "Clean," "In- different," or "Not clean."	State whether, at the Date of Attack, the Inmates of the Rooms were "Crowded," "Not crowded," &c.	Room.	State whether the Windows open into a "Street," "Court," or "both."
Yrs.	м.	1865. 17 August -	North Front		Undrained	Indifferent	Indifferent	No -	Ground Floor	Clean	Not crowded	1	Street
36		21 " .	ateroaci			Bad	Bad	Yes		Not clean	Crowded	3	
25	20	20		-	-	20		,,	20	10	-	3	-
19	25	21 " •			20		*			**		3	10
50		23						No		Indifferent	Not crowded	1	Court
18	F.	23 •	men gomestand	He Pa	The State of	Good	Good			Clean		1	Street
11	M.	20 " .	Catalan Bay	no on		THE SECTION AND ADDRESS OF THE PERSON AND AD	- 19					1	
43		3 September	North Front			Bad .	Bad		1st Floor	Not clean	Hall Ball	2	Enclosed yard
34	P.	8	and the following the same	20 75		Good	Good	market in	Ground Floor	Clean	adstant	2	Street
40		8			"	Bad	Bad	,	1st Floor	Not clean	vel merito	2	Enclosed yaze
41	M.	28 17 4 177	Simen from the	off .	Lawren	TOWNS W	ndr seine	boxed	Ground Floor	Indifferent	man will	1 1	Court
38		30 m	late out to see	m 69	1 8mm	. 01	[minjed]	10	To with	Too allot	E udation	1	
78	F.	7 October -			"	Good	Good	300	o oilt gaora	Clean	o double a	1	Street
58		9 "	mela sminked ha a	Integral	Jan.	10000	100 TO 1	CHIEFO	n ge foll	De la contraction de la contra	praw lo s	moling	

B .- Town of

		with other	the state of the s	ale to el	1/2 5/11/19	o. basisa	AND DE	and off	Cotorosi	tracet and	avieta.	Comment of
Yrs. 50	м	1865. 20 August -	D. 17, H. 14, Gunner's Lane -	Drained	Indifferent	Bad	Yes	2nd Floor	Not clean	Crowded	2	Court
29	,	21	D. 11, H. 37, Castle Ramp -		die die		na Jihi	and the side	***	b Zhoil	5	Street
70	F.	21	D. 27, H. 18, Willis's Road -	Undrained	in the second	and a	ALL PARTS	Ground Floor	Hoh	Not crowded	2	Both
40	м.	22	D, 27, H. 28, Hill Side		Bad	201	Always	Stables for Donkey, Ground Floor.		Crowded	None	Nome
1		THOW OL	Junear "1921 Hall House	William Te	Hilliam W	million	conne y	OF SAMEST	A COLUMN	mo think	Cholar	
26	F.	22	D. 24, H. 41, Road, Devil's Gap -	Drained	Indifferent	Indifferent	Yes	Ground Floor	Clean	Not crowded	4	Court
57	10	23 •	D. 21, H. 11, Town Range -	morp, or		and another	No	2nd Floor		15 W U	1.3	-
40	M.	23	D. 14, H. 37, Fraser Ramp .		Bad		Yes	Ground Floor	Not clean	demon't	100	Street
40	-	23	D. 27, H. 24, Cavallero's Yard -	Court not drained.		Bad	ar :	diana ni		Degiani	1	Court
		or numby	the howels, our and a	to doi:	explore in	intly feet	gille ber	office had	in seu	in ham en	missig	
18		23	D. 25, H. 61, Road, Devil's Gap -	100		Indifferent	hip.	Sout work of	10	Crowded	1	
70	F.	26	D. 24, H. 2, Road to Flat Bastion	Drained	Indifferent	and went	No	obligation in	not ploud	Not crowded	1	Street
6)	M.	26	D. 17, H. 15, Gunner's Lane -		100	Bad	Yes	nchille a latter	9 90	Crowded	1	Court
39		26	D. 17, H. 1, Governor's Parade -	,and		Court had		of monoce	Difference of	9 /1	1	
		boilggas	out assumpts out divide	aponi sel	rios all	north deal	al noon	to redignize	lo suy!	mn and .	117	
		to surrous	un nintero to realist au	3 winter	Tolyall !	STILL B	in telli	of granishing	ule hy	or elections, and	E) lin	
19	10	27	D. 19, H. 9, Prince Edward's Rd.	H-Parto	7/WIDH	n 11	OSAS I	2nd Floor	to plue of	III loesaan	1	Outer air
29	10	27	tol within this is	a attack	10	- Wale	0 0% 00	Ground Floor	11 10 11	n	1	
7	21	27	D. 16, H. 27, Church Street -	Separation .	Properly	Indifferent	No	lorovan od	OF ST	/ Jobano d	1	Court
37		27	D. 11, H. 25, Serruya's Lane -		Bad	Bad	Yes	Thomas and	sauth au	or phinns	1	
63	F.	28	D. 25, H. 46, Road to Flat Bastion	W19.7	Indifferent	Court bad	-	3rd Floor		Not crowded	2	
43		28 ., -	D. 15, H. 7, Giro's Passage	-Birch	Bad	Indifferent	-	Ground Floor	Clean	Harris H	3	Street
61	М.	28	D. 14, H. 5, Governor's Street -		Indifferent		-	2nd Floor	3.0		3	-
6		28	D. 5, H. 29, Lower Castle Street	-			No		Not clean	Crowded	1	-
1		1		1		-						

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## of GIBRALTAR where Deaths from Cholera occurred during the Epidemic of 1865 (prepared by the Police).

APPENDIX.

## Front.

		1	Vater Supply	r.	1 1	TO NOT THE REAL PROPERTY.		House D	rainage.	THEFT	ary ships a	
Doors: whether epening into a "Common Stair," or into the "Outer Air,"	Whence derived.	Quality at the Time of Attack: "Good," "Clear," "Muddy," "Tasted badly," &c.	Quantity: "Sufficient," or "Insufficient."	How obtained; "Drawn from Tank,"or "From Well," "Carried," "Drawn from Pipe," &c.	"Under	Whether any House Drains: "Yes," or "No."	Whether any open Gulley or Sink in the Street or Court close to the House attacked: "Yes," or "No."	such Gulley or Sänk at the Time the Patient was attacked, or whether any Drain opened	Nature of Privy Accommo- dation: "Open Sink," or "Common Privy," &c., &c.	How Privy is supplied with Water: "By Pipe," "By Hand," "Not supplied,"	Whether Nuisance or Smell arcose from Privy at Time of Attack: "Yes," or "No."	RENARES.
Outer air	Drawn from well.	Good	Sufficient	Drawn from well.	None	No	No	None	No privy	-	No	Near No. 1, Limekiln, North Front.
400	20	Bad	*			10	Yes	Yes	Common privy.	No	Yes	
										200	100	Government Contractor's Sheds, for washing Soldiers' Bedding.
		-	-		0 -							
Close court		Good			-		No	No	20		No	Commissary Sheds, North
Outer air		-			-		-			.,		Front. Near the Devil's Tower
			-		-	-						Guard, North Front. Mr. Conte's House, Catalan
Enclosed yard		- 10					10				0.54.2.2	Bay, Mrs. Peralta's Store, North
Outerair		-	-			100			,,			Front. Situate near the Slaughter-
Enclosed yard		-			-	-	-					house, North Front. Mrs. Peralta's Store, North
Close court							-					Front. Commissary Cart Drivers
		-										Sheds, North Front.
Outer air		-				70						Government Contractors
	Y . 1000	- 1			-					n	Donat	Cattle Sheds, North Front. Situate near the Slaughter- house, North Front.

### Gibraltar.

Court	Ragged Staff	Tasted badly.	Insufficient	Carried	_	Yes	Yes	Yes	Open sink	Not supplied.	Yes	Water-closets and drains out of order, and bad
Common stairs		-		-	=	No	No	No		-	A 35 g	smell.  This room is occupied till by o'clock p.m. as a drink- ing and smoking room for
Court	Tunk	Good	-	Drawn tank.	Under room	Yes		ligitled Section	Common privy.	-	7.15.00	soldiers. Died in hospital.  This room is unfit for any human person to live in.
Outer air	Near ground	Muddy		Carried	-	None	None	None	No privy	None	None	The premises are only a wooden shed, crowded with donkeys; very bad smell always arising from
Court	Tank	Good		Drawn	Court	Small; Yes.	Yes	Yes	Common privy.	Not supplied.	No	the same.
Common stairs	Ragged Staff	Badly	-	Carried	-	Yes	No	No		-	Yes	Court is not in good sanitary condition.
Court		Good		19	-		"	-	-	-	-	
-	5		- 20	-	0 -		Yes	Yes				Died in hospital. Court is not in good sanitary con- dition. Water-closet and drain out of order, One
	16	Badly	29		_	No	No	No	Open sink			privy for 50 persons.
Outer nir	Tank	Good		Drawn	Under house	Yes		1 -	Common privy.			3-13-
Court	Ragged Staff	Badly		Carried	-		Yes	Yes	Open sink			-
		-			-	100						This room was condemned by a medical doctor. Court is in a very dirty state, also the drains and water- closet.
Common stairs	Tunk	Good	Sufficient	Drawn	Under court	No		-			-	The house drain is closed,
Street				10				-	,,,	-	10	19 10
Court	Ragged Staff	Badly	Insufficient	Carried	-	Yes	No	No	- 10	10		_
-	North Front		- n				Yes	Yes	311			Court is in a bad sanitary condition.
Common stairs	Ragged Staff	-	and the state of		-		No	No	-			- Conditions
Street	North Front	Good		10	-		Yes	Yes	**		-	Water-closet in a very bad state.
Outer nir		-		-				-			-	_
Common stairs	Tank	-		Drawn	House			-	Common privy.		THE REAL PROPERTY.	Property in a bad condition.

Table XII.—Statistical Return showing the Sanitary Condition of Dwellings of the Civil Population
B.—Town of

Fata	Cas	es of Cholera.							Plate		v	Vindows.
-						State	State	State in	State	State	-	
				State	State	geneml	whether	which Floor	the Walls,	whether, at		
			Number of District (D.),	whether	whether	Sonitary	nny Nuisances	of the House the	Cellings, or	the Date		State
		-	and	the Street	the Surface was	Condition	were	Patient was	Floors of	of Attack,	State	whether
		Date	Number or	or Court	"Properly	of Street or Court :	com-	sttacked:	the House	the Inmates	No.	Window
lge.	Sex.	of	Designation of House (H.)	" Drained "	pased,"	"Good,"	plained of	AND DESCRIPTION OF THE PERSON	"Clean,"	of the Rooms were	in	open in
		Death.		or "Un-	or "In-	"In-	at or	"Ground Floor,"	"In-	"Crowded,"	affected	a "Stree
		my la	where attacked.	drained."	different,"	different,"	before the	"Mezranine,"	different,"	"Not	Room.	"Cour
					or "Bad."	or "Bad."	Time of Attack.	"1st Floor," "2nd Floor,"&c.	or "Not	crowded," &c.	20,000	
			A SHARE THE REAL PROPERTY.				ZETUICAL.	zintriou, ac.	cleam."			or "bot
rs.	M.	1865. 29 August -	D. 5, H. 34, New Tank Ramp .	Undrained	Bad	Bad	Yes	Ground Floor	Indifferent	Crowded	9	Narrow
16	F.	80		Drained	Properly	Court bad		Oronia Paga	Not clean			
	-	30 " .	D. 22, H. 18, Town Range .	Dramed	Tropeny	Court bent	-		Non cienti	Not erowded	1	Com
50	М.	50 " -	D. 19, H. 9, Prince Edward's Rd.		Indifferent			2nd Floor		Crowded	1	Outer
20	P.	51 , -	D. 25, H. 5, Arengo's Yard -			10		Ground Floor		,,	2	Both
(1)	м.	2September	D. 12, H. 17, Governor's Street -		n			2nd Floor	-		2	Com
28		3	D. 3, H. 52, Castle Ramp .	-				Ground Floor	Indifferent	Not crowded	1	,,
50	F.	3	D. 25, H. 5, Arengo's Yard •		10			10	Not elean		1	
17	-	4 -	D. 25, H. 31, Lopez's Ramp •	-		Indifferent	No	10	Clean	19	2	
30		4 -	D 20 H 10 Culls Stern		Bad	Bad	Yes		Not also	Combat	,	The I
331	"		D. 26, H. 19, Gully Steps -					- "	Not elena	Crowded	1	-
64	-	5 ,	D. 3, H. 52, Castle Ramp		Indifferent	Court bad	-	-			2	
52		5	D. 25, H. 10, Levy's Building .	Undrained	Bad	Bad	Privy				1	
					3677							
											1	
55	M.	6 ,,	D. 5, H. 34, Gully Steps	-			-			Not crowded	1	
34	P.	6	D. 24, H. 42, Prince Edward's Rd.		Indifferent	Indifferent	Yes		Indifferent	Crowded	1	
49		6	D. 16, H. S. Baker's Passage -	Drained				2nd Floor	Clean	Not crowded	3	
33	M.	7	D. 14, H. 16, Governor's Street -					1st Floor	Not elean	Crowded	2	Stre
50	F.	7	D. 15, H. 7, Giro's Passage .		Bad			2nd Floor	Indifferent		3	Cou
			art and and it control a months									
86	М.	7	D. 3, H. 48, Castle Street -			-			-	Not crowded	5	
87	F.	7									5	
3	10	7	D. 27, H. 11, Willis's Road -		-	Bad		Ground Floor	Not clean		1	
33	-	7	D. 18, H. 13, Prince Edward's		Good	Good	None	2nd Floor	Clean		2	Bo
-			Ramp,		-							
50	М.	8 "	D. 5, H. 34, Gully Steps	Undrained	End	Bnd	-	Ground Floor	Not clean	Very crowded	1	Cou
31	F.	8	D. 27, H. 23, Cavallero's Yard .	"			Yes	1st Floor			1	
41	-	9 -	D. 3, H. 49, Castle Street .	Drained	Indifferent	Indifferent		Ground Floor			1	
7	-	9 _	D. 3. H. 40, Conti's Yard	Court	Bad	Bad					None	No
	-		an or an an country land	undrained.		Limit.	-			"	210000	1
58	М.	9	D. 12, H. 17, Governor's Street .	Drained	Indifferent	Indifferent	-	-			1	Con
50		9	D. 5, H. 43, Gully Steps	Undrained	Bad		:	2nd Floor			2	
2	P.	10	D. 27, H. 26, Cavallero's Yard -			End		Ground Floor			1	
2	34.			27	To different	Indifferent					1	
70	F.	***		,					N 1100	No. of control of	1 500	01
	M.		D. 25, H. 4, Arcago's Yard -	Drained		-			40000000	Not crowded		Str
7	100	10	D. 20, H. 22, Gulley Steps	**	Bad		-	2nd Floor		Crowded	1	
34	F.	10	D. 7, H. 11, Turkey's Lane -	-	Properly	Good	-	-	Not elemn	Not erowded		Co
2	М.	10	D. 19, H. 7, Prince Edward's Rd.	-	Indifferent	Indifferent		-		-	2	Y
73	F.	11 "	D. 21, H. 21, Church Street .	-	Properly	Court bad	-	Ground Floor		Crow ded	None	No
47		11	D. 3, H. 40, Conti's Passage -	Court	Bad		Yes			Not crowded	1 1	Cor
54	м.	11	Dall o code	undrained.	1		1	and small	Links !		Total Control	1
48	200	11	D. 3, H. 52, Castle Ramp	Drained		**	-		Indifferent	Crowded	3	1 18
36	F.	11 -	D. 3, H. 29, Carrerns Yard -			10	-	3rd Floor		100	3	1
2		11					-	10			3	
45	10	11 .	D. 27, H. 23, Cavallero's Yard -					Ground Floor			1	
45	M.	13	D. 27, H. 27, Cavallero's Yard -	Undrained		Bad			11	Crowded	1	1
28	F.	12	D. 3, H. 49, Castle Street -	Drained	1	Indifferent		Turmen	Indifferent		1	Ter
2)	M.	10	D. 19, H. 7, Prioce Edward's Rd.			11000	1 100	Terrace	1		The To	
68	F.					-	-	2nd Floor		-	None	Ope
		12	D. 24, H. 14, Roud to Fiat Bastion		10		1000	Ground Floor		-	1	of Bready

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of Gibraltar where Deaths from Cholera occurred during the Epidemic of 1865—continued.

Gibraltar—continued.

		1	Water Suppl	у.			84- 44	House I	Drainage.			- Internation
Doors:	la la	Quality at the	olle's out	part of	Situation	l in	Whether	Any Smell from	Nature of		Whether Nuisance	
		Time of	Quantity:	How obtained	the Principles of the Park Control of the	Whether	any open Gulley	such Gulley or Sink	Privy	How Privy is	or Smell	
opening into a		Attack :	"Suffi-	" Drawn	Water Beach	any	or	at the	Accommo-	supplied	arose	
"Common	Whence	"Good,"	NAME OF TAXABLE PARTY.	from Tank," or	"Under	House	Sink in the Street	Time the Patient was		Water:	from	REMARKS.
Stair," or into	derived.	"Clear,"	cient," or	"From Well,"	Room," or	Drains:	Court	attacked, or whether	"Open	"By Pipe," "By	Privy at	1 1 10 100
tho	ucrivea	"Muddy,"	"In-	"Carried,"	"House,"		close to	any Drain	Sink," or	"By	Time of	
"Outer Air."		"Tasted	sufficient."	"Drawn from	"Under	100000000000000000000000000000000000000	the House attacked:		"Common	Hand," "Not	Attack:	
Outer Air.		hadly,"	Same 1	Pipe," &c.	Court," &c.	or "No."	or No."	Room or House affected.	Privy," &c., &c.	supplied,"	"Yes," or "No."	
Street	Ragged Staff	Badly	Insufficient	Carried	-	No	No	No	None	-	None	
Court		-	-			Yes	Yes	Yes	Common privy.	Not supplied.	Yes	10 m - 10
Common stairs	Tank	Good	Sufficient	Drawn	Under court	No		111	Open sink	military had	-	
Court	Ragged Staff		Insufficient	Carried	-	Yes	29	-		- Continue	**	Court and water-closet not in good sanitary o dition. One privy for
ommon stairs	North Front	6	The state of			hethori		1000		1	ab Appli	persons.
				. "					"	"		
Court	Tank	Tasted badly.	Sufficient	Drawn	Under court					-	or men	Privy unfit for human v house is not in good s:
C	Ragged Staff	Good	Insufficient	Carried	_	190	( Ibyet)	ed -	9.50	OF SHARE TO	W 25.	tary condition.
min.	The state of the s		manto militar	The second state	The state of	"		"	Common			171
	Tank	-		Drawn	Under court				Common privy.	"		in the same of the same of
Time I	North Front	Badly	100	Carried		No	2.8		No privy	None	None	Dangerous and unsafe
			Coffiniant		Vada		V	One of the b	100	-	-	any person to live in.
	Tank	Tasted badly.	Sufficient	Drawn	Under court	Yes	Yes	Prom sink	Common privy.	Not supplied.	Yes	Room unfit for habitation
		Good	Insufficient		Under house	No	-	From privy	10		o march	The whole building is dilapidated state, an quantity of filth and s
			and the same	-		A COUNTY					Part of	quantity of filth and s
				1000		CHEROLD	-	7		Security and	DOM:	are thrown outside house, together with
Luciat			CONTACT OF THE PERSON NAMED IN	-		Door			S S Mor	OR PERSON	ST SAL	uncovered cesspool, wi emits a fearful smell,
	Ragged Staff	Badly		Carried		- 10	Yes		3163		TIES	-
	-	5			_		-					Privy in bad condition.
ommon stairs	North Front	Good			_	Yes		Yes				4 20
Court			- 3	1207		No			Open sink	then'n	TAGET	Danasana ta lina in . ha
ALL PROPERTY OF THE PARTY OF TH							*	er Jester	Open sink	-		Dangerous to live in; he in ruins.
ommon stairs	* *		-		-	Yes		Smell from drain.	"			Bad smell from privy drains.
and the same of	Tank	100		Drawn	House			Yes				
	Amin		- "	Diami	110480	10		101	10			10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
20				**			**		-10	-	0.000	ER P. TRI A /
	Ragged Staff			Carried	-	No	**			-	100	0.00
	Tank		Sufficient	Drawn	House	Yes			Common	-		Privy is under ground,
1		1000		NAME AND ADDRESS OF	T Annual I				privy.	and the second		bad.
Court	Ragged Staff	Badly	Insufficient	Carried	-	No	-	-	None	-	-	-
					-	Yes	Yes	Yes	Open sink	Not	Yes	Privy in bad state.
Ton II	make the	NO I	and the	ON THE	0 000	1000				supplied.		
**		**		10	-	"	**		н			_
	North Front	Good			-	No				7.8		This property is in a fil
	1					200						state.
				10	-	Yes			Common privy.			_
ommon stairs	Tank			T		**			persy.	Section 1	40 7 25	
	Tank			Drawn	Court	No		Bad smell			*	
Court	Ragged Staff	Badly		Carried				Yes	. 11	and the said		Privy dangerous to heal
				100	-							Privy in a bad state.
-					-	Yes					-	
Outerair				TOTAL LOS						Land Street	D. SEC. JII of	The whole property is in
ommon stairs			MALLON I	not be to the					11	21		condition.
MERCHA INT.			-		Lange of		No	-	"			Privy is in a filthy state.
	Tank	Good		Drawn	House		Yes	Yes		-		
Court	Ragged Staff		1919	Carried	0 =7				Open sink	AL ALL		Room unfit and danger
Come	North Front				_	70	Locality	of	,,	nditional	-	to health. Ceiling low, and room very da
Outerair	Account & Louis	August 1	Agriculture .	W. Land	Under court	-		From sink	Common			Privy unfit for human u
Outer air	Tank	Badly	Sufficient	Drawn	anner some !		The state of		privy.	Translation	the section is	THE RESERVE OF THE PARTY OF THE
Outer air	2000	Badly Good	Sufficient Insufficient	-075				From drains	- 10			
Outer air ommon stairs	Tank	Good	HE TO	Carried				44	- "	-	1 13 77 1	
Outer air	Tank North Front	Good "	Insufficient	Carried					- 11			
Outer air	Tank	Good  Eadly	HE TO	Carried		100		44			1 13 77 1	Privy unfit for human One privy for 50 perso
Outer air	Tank North Front	Good "	Insufficient	Carried		2.40	Hall		_ H _			Privy unfit for human
Outer air ommon stairs Court	Tank North Front  Ragged Staff	Good  Eadly	Insufficient	Carried			Half	Yes	. **			Privy unfit for human One privy for 50 perso
Outer air	Tank North Front  Ragged Staff	Good Badly Good	Insufficient	Carried	11111	» No	Hall Hall	Yes				Privy unfit for human One privy for 50 perso

Table XII.—Statistical Return showing the Sanitary Condition of Dwellings of the Civil Population

B.—Town of

ava	I Cas	es of Cholera.	100	Tares compass			State	State in	State			Vindows.
					State	State	State	State in which Floor	whether	State		
			North Control of the Control	State	whether	general	any	of the	the Walls,	whether, at		State
			Number of District (D.)	whether the Street	the	Sanitary Condition	Nuisances	House the	Ceilings, or Floors of	of Attack,	State	whether
		Date	and	or Court	Surface was	of Street	were	Patient was	the House	the Inmates		
	0	SOURCE STATE	Number or	was	" Properly	or Court :	com-	attacked:	were	of the Rooms	No.	the Windo
ge.	Sex.	of	Designation of House (H.)	"Drained"	paved,"	"Good,"	plained of	The second secon	"Clean."	were	in	open int
		Death.	where attacked.	or "Un-	or "In-	"In-	at or	"GroundFloor,"	"In-	The Control of the Co	affected	a"Street
			Where areaeses.	drained."	different,"	different,"	before the		different,"	"Not	Room.	"Court,
			"Leek", "Lindquan" "Yesk		or "Bad."	or " Bad."	Time of	"1st Floor,"	or "Not	crowded," &c.	200000	
			300, 49	- Judg			Attack.	"2nd Floor," &c.	clean."	-		or " both.
rs.	м.	1865.	D. 24, H. 44, Prince Edward's Rd.	Drained	Indifferent	Indifferent		2nd Ploor	Not elean	Crowded	her 2 cd	Court
2				1000								
1	P.	12	D. 27, H. 14, Willis's Road .		Bad	0.	-	-	Clean		. 1	11
2	M.	12	D. 25, H. 45, Read to Flat Bastion		Indifferent		policy and	of short		Not crowded	2	Both
1	F.	12	D. 27, H. 23, Cavallero's Yard -	Undrained	Bad	Bad	-	Ground Floor	Not clean	Crowded	1	Court
		CHI THOUGHT.			1 7	1		100000	The state of the s	a About	To September	466
1		12	D. 3, H. 40, Conti Passage -	Court		Court bad					None	_
-		-	Di G II an Count I mange	undrained.	"-	Court out	-			" Inoc	Table 7	
5	M.	18	D. 27, H. 23, Cavallero's Yard -	Undrained			10-10	Days To	Indifferent	Not crowded	1	Court
9	P.	12	D. 5, H. 38, New Yank Ramp		Indifferent	Good	_		Clean	Street Land	None	-
	M.			Drained	100	Indifferent	_	2nd Floor	Not clean	Crowded	2	Court
5	21.	A. C.	D. 24, H. 44, Prince Edward's Rd.	Dimined		Indimerent	Transcond	of ments	Not cseam	241	1000	
4	*	12 -	D. 3, H. 48, Castle Street		21	**	-	-	-	Not erowded	None	None
4	F.	12 -	D. 11, H. 27, Serruya's Lane -		Bad	Bad	-	Ground Floor	11 10	Chatt, man	1 2	Street
3	-	12 -	D. 26, H. 15, Castle Road	O Spicer	Ties. Fr	97	Street of	Denistra Miles	Indiana.	Crowded	1001	Cqurt
0		12 -	D. 26, H. 21, Gully Steps	-			-			Allian	None	None
	-		MARKET STREET,	Agent us		475	In the last	an le	PROPERTY.	bumi	e 1	Court
0		12 ,	D. 27, H. 11, Willis's Read -		"		-				130	Court
2	М.	12 -	D. 3, H. 51, Castle Ramp		Indifferent	Indifferent	-	2nd Floor	Indifferent	-	1	
0	F.	13 -	D. 1, H. 3, Waterport Street -		11	Good	-		Not elean		2	Street
6		13	D. 24, H. 1, Prince Edward's Rd.	4.5	150	Indifferent	-	1st Ground Floor.		tiles . her	2	191
2		13 -	D. 27, H. 26, Cavallero's Yard .	Undrained	Bad	Bad		Pioor.		Not crowded	- 1	Cour
	5		Control of the second s	192		CHAR	_	2nd Floor	10.	pant Good	1	and while
2	-	200	D. 25, H. 10, Levy's Building .	10		74	-	2000 Finne	99	. 1		Ottorio
31	-	13 =	D. 24, H. 15, H. Gov" Parade -	Drained	Indifferent	Good	-	-	Clean		2	Stree
5	M.	13 =	D. 18, H. 9, Fraser's Ramp	10		Indifferent	-	Ground	Not clean	-	1	Court
63	-	13 -	D. 16, H. 2, Bomb House Lane -	. 117		Court bad	scroll	2nd Floor	11 m		1	Street
14	F.	13	D. 26, H. 17, Castle Road		Bad	Bad	-	Ground Floor			1	Court
8		13 -	D. 27, H. 5, Willis's Road		Indifferent	Court had		2nd Floor	Indifferent	Crowded	1	Street
4	6	13 -	D. 5, H. 3, Castle Ramp.	0	P. Property	Bad	2000	Ground Floor	Not clean		None	_
					10	Date			2100 21000		1	Stree
8	"	13 .	D. 27, H. 33, Willis's Road		"-	7.5	-	2nd Floor	Talenta a	plant Bath	linggerill	Burch
7	M.	13	D. 24, H. 25, H. Gov" Parade -	. 10%	Bad	Indifferent	No	-	Clean	Not crowded	. 1	Cour
3	F.	13	D. 26, H. 21, Gully Steps	-		Bad	Yes	Ground Floor	Not elean	Crowded	None	Non
6		14	D. 25, H. 5, Arengo's Yard		Indifferent	Court bad	17			hood a draw	100	Cour
5	м.	14	D. 27, H. 25, Cavallero's Yard .		Bad	Bad					1	,,,
		14	D. S. H. 8, Castle Ramp	1		Court bad	3.5	2nd Floor		Not crowded	2	One Cor
	-	-	D. & H. e, Castle Kimp .	Describ		Court bad	Franci	man,CE		. 3	T	One com Stair
	**	14	D. 26, H. 10, Baker Passage	. 007		Indifferent	No-	160000	Clean	DATE , THERE	2	Cour
		14 _	D. 18, H. 1, Fraser's Ramp.		1 - 1 +-	Court had	-	Ground Floor	Not clean	Crowded	1	-
-1	30	7.0			".	<b>国民主要等的</b>	"		The same of the sa		1	Stree
)	20	14	D. 26, H. 22, Gully Steps		"	Bad	Yes	2nd Floor	Indifferent	. "		nis est.
'	*	14	D. 27, H. 11, Willis's Road		1100	-	*_	Ground Floor	Not clean		1	Cour
	30	15	D. 5, H. 26, Castle Ramp.	*	Mark	-	No	2nd Floor	Clean	Section 1	1	Stree
		15	D or W M Women De la	0			w	Command To	Not along	44.19	1	Cour
	**	15	D. 27, H. 11, Willis's Road		"	*	Yes	Ground Floor	Not clean	-	1000	
	-	15	D. 24, H. 1, Prince Edward's Rd.	-	Indifferent	Indifferent	No	2nd Floor		. 1	drecht	Outer
	F.	15 _		1		1		3rd Floor			1	
20	F		7. 7. 0. 0. 0.	O Mines	17 "-		James no	423600011	Class	Not mental	1	Cour
1	-	15	D. 5, H. 17, Castle Steps				10	2nd Floor	Clean	Not crowded		
0	M.	15 ,	D. 14, H. 2, Rogrs. Ramp		10	76	79	Ground Floor	No.	booth a drooth	10.2	
8	F.	15	D. 26, H. 18, Gully Steps		Bad	Bad	-	-	Not clean		1	- 20
,	-	18	D. 14, H. 16, Governors Street .	Later T	22-46	-	From			Crowded	15	111.00
	15	10			Good	Court had	privy. Yes	1		Not crowded	1	
8	39		D. 21, H. 16, Town Range		Good			to di Wilson		and the same of	1	-
4		15	D. 22, H. 4, South Port Street .			Good	No	2nd Floor	Clean		1	
		-5				1 -2 -	A STATE OF LAND AND ADDRESS OF THE PARTY OF	Charles -	27.4 .1	"Country	1	Outer nir
5	M.	15	D. 27, H. 27, Cavallero's Yard .		Bad	Bad	Yes	Ground Floor	Not elean	Crowded		into an o

of Gibraltar where Deaths from Cholera occurred during the Epidemic of 1865—continued.

Gibraltar—continued.

		and the same of	Water Suppl	- minutes	NAME OF TAXABLE PARTY.			House D	ramage.			
Doors:	an in	Quality	HoW ods	Suela Eland	w bottom w			Any Smell	Nature		Whether	
whether		at the	Osithey	No.	Situation	West of the	Whether	from	of	How	Nuisance	
		Time of	Quantity:	How obtained:	of	Whether	Gulley	such Gulley or Sink	Privy	Privy is	or Smell	
opening into a		Attack :	"Suffi-	"Drawn	Water Tank ,	any	or Sink in	at the Time the	Accommo-	supplied with	0.7050	865
" Common	Whence	"Good,"		from Tank," or	"Under	House	the Street	Patient was	dation:	Water:	from	REMARKS.
Stair," or into	derived.	"Clear,"	cient," or	"From Well,"	Room," or	Drains;	Court	or whether	"Open	Pipe."	Privy at	
the	The state of the s	"Muddy,"	"In-	"Carried," "Drawn	"House,"	0.3994	close to	any Drain	"Sink," or	By Hand,"	Time of	
"Outer Air."	James L	"Tasted	sufficient."	from	"Under		attacked :	within the	"Common	"Not	Attack:	
Tales to		&c.		Pipe," &c.	Court," &c.	or "No."	or "No."	Room or House affected,	Privy."	supplied,"	"Yes," or No."	
Common stairs	Tank	Good	Sufficient	Drawn	Court	Yes	Yes	Yes	Common	Not	Yes	The court is in a very flith
Common States		100		Diami		105		163	privy.	supplied.	203	state, and privy very bac
100		Badly	Insufficient	20	Under house	**	No		- 10	off a White		B B
	1 +	Good	Sufficient		-	. 10	Yes					
Court					-						,,	The house drain is with
The same is							1000					the wall of this room, an fills the whole of the roo
description of	North Front	Indiff.	Insufficient	Cambridge	0 -	No.	_bat					with a bad smell.  Drains in a very bad stat
10	Trouble Trous	Attonia,	Amaumocacine	Carried		2000	-			10		Died in hospital.
Hook	Ragged Staff	Good	misto	-	_	Fin.	Joseph II	1 _0	- Indiana	out to Fre	Links in	(I I A n
and the same	THE RESERVE OF THE PERSON NAMED IN	and a					10000		1.5			W
	Tank	-	Sufficient	Drawn	Under house	Yes	-			"	*	Privy in bad condition : the time of attack.
Common stairs		-	* *	74	Under court	Togi	Yes	Yes		10		M 1
	Ragged Staff	Badly		Carried						19 19		Court in bad sanitary orde
Court	Tank	Good	Insufficient	Drawn	Under house			1				The same of the sa
	Ragged Staff			100000				-		and the last		
e	Supplied Links	Badly		Carried	-	70	-			10	10	
	North Front	Good	- CHEST		-	20	-	-				Room unfit for human use
-					-	"		-	Open sink	20	.00	-
Common stairs	E Indi	Desc.	7	of Chinase	1 -	100	-		Yes	T COUNTY	STATE OF	C - D
-	and the same		ale falt		1						20.00	
· ·					-	790				11	20	
	Tank		Sufficient	Drawn	-	-10	Yes	Yes	Common privy.		"	The house drains are op- sinks and without traps
Court	North Front			Carried		ministration of	2		- Sandan		11.11.41	
Cours	LOW NO.	-			1900			-		-		The court is in very be state.
	Tank		Insufficient	Drawn	Under terrace	No	and a				1000	
Common stairs	-		Sufficient	70	Court	Yes	-			10		
Court	E Children	IN SUPERIN	mio.	and the			break		Day Inc	Margali	I II II	10 2 22 2 10
Common stairs	Ragged Staff			Carried	_		-	_				
Court					10.5		1000	1	- "	I manage	. 10	10 - 11
Court				"	The last of	16.50	-		- Marie		10.00	A
	Tank	10015**		Drawn	Under house		Total	-		out of and	10 M 11	0
		Badly	Insufficient		Court	No	-	-				_
Common stairs		Good	- 10		House	Yes		-				Drains and privies are in
San	-			AND PARTY.	The same of	Towns of the last			-	an attent		very filthy state, ar
					Under house		No	No			No	strong smell arises.
Court	North Front	Badly		Carried	_		Yes	Yes	Open sink	1 0000300	Yes	Died in hospital. A stron
4			The same			Just	Bell		Орен зин		200	smell rises from drain as
	Ragged Staff			W. San	Y Text	- m	100			of sold a		privy.
Minage O	S. Index	Not its				ALCOHOLD !	June 1915	10	- 1	mg ba	10.27.41	
	m. v		and the state of	7"	-	"		"		,,		In bad sanitary condition one privy for 00 persons.
Common stairs	Tank	Good		Drawn	Under room	***	16.	11.7		"		A strong smell arises fro drain and privy.
Classic H				of the beauty			100			-unit willing	D.H.as	man mon party.
				10	Under court		-	-	Common		No	_
Andrew 1			N. A. C. C.			man-galiel	10.00	1000	privy.	The Parish	No. of Lot	The Property of the
Court	North Front	Badly		Carried		No	Sink; Yes	Yes	Open sink	-	Yes	The court is in a filt
Common stairs		-	10		- 1	Yes	Yes			-		state. Drains and privy in a ve
Court			-		-	No	1 4					bad condition.
Common stairs	Tank				Y	MIG TONICO	Ones State	1 - 74	- " for	THE REAL PROPERTY.		1 1 1 1 1
Commercia similar	A store	Good	200	Drawn	Under house	Yes	15.11		Common privy.	W	0.0	1 1 1 1 1
Court	North Front	Badly	3	Carried		No						
(0.000 to 1)	20 3 20000000	TO FEMALES	- "	No. of Lot,	The best of	- W	turn Colle		Open sink	THE MES	ARA	1
Common stairs	Tank	Good	DECO.**	Drawn	Under house	Yes	100		Common privy.	- mar-	DOKE	A THE REST
				200		1500		1000		The same	1	
Man III		-	San Co	- "	107	- "		"-	- "	The state of	The state of	1 1 1 1
	5 1	-	milD "	COUNT DIS	Court	Yes	Die Walt	1	1000000	4111	13.00	H . Total . H
,	Ragged Staff	-		Carried	-	No	-	-	Open sink			-
	Tank		自める	Drawn	Court	Yes	Yes	Yes	- 1-7	-	THE REAL PROPERTY.	T 3 W
MARKET I	North Front	Badly	-	Carried	-	No	546	1000	1 - 00	Lemmi	100-11-12	The whole building is or
Court	Tank	Good				1 30 5			10		.0	gerous to live in.
		Grood		Drawn	Room	Yes			20 11		A. IP.	Court and drain and privy a bad sanitary conditio
Common stairs	North Front			Carried			district to	-	Common	ALC: NAME OF THE PARTY OF	32.00	
Common States	A. INCHES											
Court	10070	Badly		1000000		No	Yes	Yes	None			This room is not fit for a

Table XII .- Statistical Return showing the Sanitary Condition of Dwellings of the Civil Population

B .- Town of

The Real	Con	es of Cholera.									,	Vindows.
Fata	Cas	es of Choiera.		LINE I WOTE		State	State	State in	State whether	State	-	vindows.
			and the second second	State	State	general	whether	which Floor	the Walls,	whether, at		
			Number of District (D.)	whether	whether	Sanitary	any	of the	Ceilings, or	the Date		State
			and	the Street	the Surface was	Condition	Nuisances were	House the Patient was	Floors of	of Attack,	State	whether
		Date	Number or	or Court	"Properly	of Street	com-	attacked:	the House	the Inmates	No.	the Windows
Age.	Sex.	of	Designation of House (H.)	was "Drained"	paved,"	or Court:	plained of	100000000000000000000000000000000000000	"Clean,"	of the Rooms were	in	open into
		Death.	where attacked.	or "Un-	or "In-	"In-	at or	"Ground Floor,"	"In-	STATE OF THE PARTY	affected	a "Street,"
			where attacked.	drained."	different,"	different,"	before the		different,"	"Not	Room.	"Court,"
			The state of the s		or "Bad."	or "Bad."	Time of Attack.	"1st Floor," "2nd Floor," &c.	or " Not	crowded," &c.	Account.	or "both."
			7.00				Attack.	200 Floor, ac.	clean."	-		or botti.
77	у.	15 September	D. 25, H. 4, Arengo's Yard	Drained	Indifferent	Bad	Yes	Ground Floor	Not clean	Crowded	1	Court
5		15	D. 27, H. 18, Willis's Road •	-	Bad		-	10	10		1	Street
6	M.	15	D. 27, H. 35, Willis's Road -		Indifferent	Court bad		2nd Floor		-	1	20
							The state of					- 34100.7
27	"	16	D. 11, H. 42, Castle Ramp		Bad		-	Ground Floor			1	Court
61	F.	16	D. 25, H. 57, Road to Flat Bastion	-	Indifferent		-		Clean	Not crowded	1	Both
69		16	D. 3, H. 52, Castle Ramp			-	-		Not clean	Crowded	2	Street
54		16	D. 27, H. 27, Cavallero's Yard -	-	Bad	Bad	-				1	Outer air and
42		16	D. 27, H. 5, Arengo's Yard -	-	Indifferent			-			2	open sink, Court
			D. 11, H. 42, Castle Street -				the later	Francisk in	Inmit		WIT THE	Prosition 1
38	"	16			Bad	-		-			1	
14	M.	15	D. 5, H. 6, Castle Ramp.		-	-	-	2nd Floor	Indifferent	Not crowded	1	Street
14	20	15	D. 27, H. 13, Willis's Road -				-	Ground Floor		Crowded	2	Court
17	F.	15 "	D. 27, H. 33, Cavallero's Yard -				-		Not clean		1	,,
70	M.	15	D. 16, H. 9, Baker's Passage				Yes	2nd Floor			1	Common stair
22		15	D. 19, H. 15, Library Garden -			Indifferent	-		Clean	Not crowded	2	Outer air
21	F.	15	D. 25, H. 9, Arengo's Yard -			Rad	Yes	Ground Floor	Not clean	Crowded	1	Garden
39			D. 25, H. 6, Arengo's Yard			-		Oroman Troop			1	
26			D. 24, H. 43, Prince Edward Road				-	2nd Floor	Clean	Not crowded	2	Street
417		17 "	D. 24, 11. W. I Flint Dawner Bond		indinerent	Indifferent	-	200 F100F	Cican	ines cromusu		Dates
21		17	D. 19, H. 9, Governor's Street -			-	Yes	3rd Floor			2	Outer air
11		17	D. 24, H. 15, Hd. Govrs, Parade -			Good	-	2nd Floor			2	Court
28	М.	17	D. 14, H. 31, Fraser Ramp		Bad	Indifferent	-	Ground Floor		Crowded	None	-
85		17 _	D. 27, H. 26, Cavallero's Yard .			Bad	-	1	Not elean		2	Court
38		17	D. 17, H. 22, Church Street		Indifferent	Indifferent	Name of	2nd Floor	Clean	Not crowded	2	Street
	300	Commission of						1200 10000	100000			
33	**	17	D. 3, H. 35, Engineer's Lane -			-	-	-		-	1	Court
70	-	17	D. 3, H. 52, Castle Street -		Bad	Bad	-		Not clean	Crowded	2	
22	F.	17	D. 26, H. 24, Willis's Road .				Yes	Ground Floor			1	
38		17	D. 24, H. 50, H. G. Parade -		Indifferent	100	_			Not crowded	2	Open air
23	M.	17	D. 27, H. 7, Willis's Road -				Yes	2nd Floor	Indifferent	Crowded	1	Court
10		17	D. 26, H. 21, Gully Steps .		Bad	Bad		Ground Floor	Not clean		1	
31	100	17	D. 27, H. 3, Willis's Road		Dau.	Indifferent	-	Ground Floor	"		1	Street
1106	-		Dog Was a series	-		4400	-	1		the Park	CHARLE	(200)
6	F.	17	D. 27, H. 23, Cavallero's Yard -	-		Bad	Yes		,,		1	Court
52	20	17		-			-	2nd Floor	-		2	.,
29		18 10	D. 27, H. 35, Willis's Road	-	Indifferent	Court bad	-				1	,
28		18 .	D, 27, H. 3, Willis's Road		Bad	Indifferent	-	Ground Floor	"		1	34
35		18 "	D. 18, H. 4, Castle Rend .		Indifferent		-	2nd Floor		Not crowded	1	Street
37	M.	18 _	D. 5, H. 6, Castle Ramp		Bad	Bad	-		Clean	Crowded	1	
30		18	D. 11, H. 42, Castle Street				Yes		Not clean		1	Court
13	100	18	D. 19, H. 7, Prince Edward Road	-	Indifferent	Indifferent	1000000	3rd Floor	Clean		1	
18	F.	18	D. 27, H. 23, Cavallero's Yard -		Court bad	Bad	Yes	1st Floor	Not clean	Desk is	1	
40	M.	18 **	D. 11, H. 30, Serruya Lane .	-	Bad	Indifferent	1	2nd Floor	"	# do	2	Both
1000		THE PERSON					-				Town.	
		10	D. 18, H. 2, Fraser Ramp			Court bad					2	Court
17	F.	18						The same of the same of	La Contract	Charles Co.	10.00	Carl Sammer
17 44	F	18	D. 18, H. , Prince Edward Ramp.			Indifferent		Ground Floor	Clean	Not crowded	1	Contraction of

f Gibraltar where Deaths from Cholera occurred during the Epidemic of 1865—continued.

Tibraltar—continued.

			Water Suppl	у.			. Layers	House I	Drainage.			and the entraint
Doors:		Ownellian	Holmster.	of state		-alatk	1	Any Smell	Nature		Whether	
whether	120	Quality at the	MAN CEL	-	Situation	vm	Whether	from	of		Nuisance	
	-	Time of	Quantity:	How obtained:	of	Whether	any open Gulley	or Sink	Privy	How Privy is	or Smell	
ening into a		Attack:	"Suffi-	"Drawn from	Water Tunk:	any	or Sink in	at the Time the	Accommo-	supplied with	arose	200
" Common	Whence	"Good,"	cient," or	Tank," or	"Under	House	the Street	Patient was attacked,	dation:	Water:	from	REMARKS.
inir," or into	derived.	"Clear,"		Well,"	Room," or	Drains:	Court	or whether	"Open	Pipe,"	Privy at	
the	Marketta That	"Muddy," "Tasted	"In-	"Carried," "Drawn	"House,""	"Yes,"	close to the House	any Drain opened	Sink," or "Common	By Hand,"	Time of	
Outer Air."	amost:	badly,"	sufficient,"	from Pipe," &c.		or "No."	attacked: "Yes,"	Within the Room	Privy,"	"Not supplied."	Attack: "Yes,"	
		åc.	The state of the s	1,00	-		or "No."	or House affected,	&c., &c.	- Parcar	or " No."	
				-				macoroni	-			
Court	Ragged Staff	Badly	Insufficient	Carried	-	Yes.	Yes.	Yes.	Open sink	Not supplied.	Yes.	A SHOULD Y II
	Tank	Good		Drawn	Under house						-	The ramp and court in
mmon stairs			Sufficient		Court	-						filthy state. Court is not in good sanitar
						100			- 0.000		0.00.70.01	condition; from drain an
	1 1			WIT THE	9 9 13	100			- had	Confilen	2 10 10	privies a strong sme arises; two small privi-
	North Front	Badly	Insufficient	Carried	-					and the same		for about 200 persons. Bad sanitary condition, ar
	I Inbe	an look		and the						CHECK DO	M ET A	a very strong smell fro drain and privy.
Court	Tank	Good	Sufficient	Drawn	Under terrace		"					
Outer air		Badly	Insufficient		Court							
Court	North Front			Carried	-	No.			None	-	-	
				Town a series		10-31-38-0	-	-	20122	The sail		
	Ragged Staff		-	-	-	Yes.			Open sink	Not supplied.	Yes.	Died in Hospital.
mmon stairs	North Front			-	_	10						Bad sanitary condition, as
						100						a very strong smell fro drain and privy.
	Tank	Good	Sufficient	Drawn	Under house		-	-	Common			drain and privy,
and the same	a Thabas	S WET		DESIGNATION OF THE PARTY OF THE		track Print			privy.	to all the same	M AFTER	a make
(M)	-		Insufficient	-			Yes.	Yes.	Open sink			Strong smell arises fro drain and privy.
Court	North Front	Badly		Carried	o Take							" "
amon stairs	Ragged Staff	Good			-	No.						
	Tank	>	Sufficient	Drawn	Court	Yes.	-		Common	All Con-		Building is dangerous to live
Carrier -				and the second		- Set	meg	The state of the s	privy.	HSE TH	ARRA	E 1 1 10
oder stairs	Ragged Staff		Insufficient	Carried	-	No.	Yes.	Yes.	Open sink			_
	-	Badly	1.00	-	-	Yes.						-
mon stairs	Tank	Good		Drawn	Under court	"	-	-	Common			-
Time !	Same In the last						SERVER!		privy.	NO. IN		
			Insufficient	-	Under house		Yes.	Yes.				
			-		Under court		-	-			No.	- 0.00
Court		Badly		-		No.	-	-	Open sink			_
10	North Front			Carried	-	Yes.	Yes.	Yes.				_
nmon stairs	Tank	Good	Sufficient	Drawn	Under house		_		Common			
			A CONTRACTOR OF THE PARTY OF TH	100000					privy.	In the County	D. HER L	WILL TO BE THE WAY
	North Front			Carried	-	*	-	-	100			10 m = 10
Street	Tunk	Badly	Insufficient	Drawn	Under court		Yes.	Yes.	Open sink			-
Court	North Front			Carried	_	No.		_				
	Tank	Good		Drawn	Under house	Yes.	300	Yes.			3 - 1 - 1	20 1 20 10 00
ALCOHOLD STREET	FRE	TOTAL ST		and the last	Alongside of			A 250				
amon stairs		Badly	"	**	this room,			-	Common privy.		"	
Court	North Front			Carried	-			Yes.	Open sink		-	The court is in a fifth
	Tank	Indiff.			Under house		I HOLL T		Common		-	state.
"	-	Linkins	- "	Marie Chan	Chact nouse			1 .	privy.	and the same		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Ragged Staff	Badly		-	-		-		Open sink			
amon stairs	. 1				_					10		
100	Tank	Good	Sufficient	Drawn	Under court			r Sunt		100		
Court		Indiff.	Insufficient		Under house		**	16.7 Sant				
Court		Inum.	Anisamicocar	ar Aire	Chair nouse			di annies	Common privy.	*		M . H . H
amon stairs	North Front	Badly		Carried	-	No.			Open sink	-		_
	Tank	Good		Drawn	Under house	Yes.	COURT	_	Common	10000	73.00	
			197						privy.	-	D SOTH O	1 1 10
	North Front			-	-			Yes.		and the	THE PARTY	
Outer air	Tank		10.00	Drawn	Under house	-	nostra	0		OIL of STORE	-	a y a
terrace.	Se this		100	18-11	THE WEST	ME	1000					
Court	Ragged Staff	Badly		Carried	-	100		Yes	Open sink	mall and	110	
amon stairs	North Front					No.				. 10	Yes.	This house is not safe t
										at walling		live in, and also ver dirty, &c. &c.
-	Tank	Good	the second	Drawn	Under court	Yes.	-					Court in had sanitary condition.
		100	Sufficient	ALC: U			-		Common	10000		The state of the s
Court			Cumciant			-		-	privy.		-	

Table XH .- Statistical Return showing the Sanitary Condition of Dwellings of the Civil Population

B.—Town o

		1	-		- 1					-			
Fatal	Case	es of Cholera.		Alle	Mount accordi			State	State in	State		v	findows.
				photos	State	State	State	whether	which Floor	whether the Walls,	State whether, at		
			Number of District (D.	0 =	whether	whether	Sanitary	any	of the	Ceilings, or	the Date		State
		- 4	and	contra	the Street	the	Condition	Nuisances	House the	Floors of	of Attack,	State	whether
		Date		ment	or Court	Surface was	of Street	were	Patient was	the House	the Inmates	No.	the Window
Age. 8	Sex.	of	Number or	111	was	"Properly paved,"	or Court;	com- plained of	attacked : "Basement,"	were	of the Rooms	in	open into
		Death.	Designation of House (i	H.)	"Drained"	or In-	Grown,	at or	"GroundFloor,"	"Clean,"	were	DE TOO	
		A	where attacked.	recomme!	or "Un- drained."	different,"	"In-	before the	" Mezzanine,"	"In-	"Crowded," "Not	affected	a "Street,
				7,000	an announce	or " Bad,"	or "Bad."	Time of	"1st Floor,"	or "Not	crowded," &c.	Room.	"Court,"
				20 40	Links	13		Attack.	"Ind Floor," &c.	clean."			or "both.
17	F	18 September	D. 25, H. 51, Road to Flat 1	Bastion	Drained	Indifferent	Indifferent	-	Ground Floor	Clean	Not crowded	1	Street
70	-	19	D. 27, H. 1, Willis's Road	4.		Bad		count of	2nd Floor	-	Se-10- 1	2	Both
2)	M.	19	D. 27, H. 23, Cavallero's Ye	ard -			Bad	Yes	1st Floor	Not clean	Crowded	1	Court
70	F.	10	D. 27, H. 26, Cavallero's Ya						Ground Floor	1		1	
100	7				"	To Ald Count	Indifferent		Ground Floor	"			
23	20	19 "	D. 19, H. 6, Prince Edward	100000	"	Indincrent	Indimerens	-	del medida		flaff, 1000	11121	"
40	-	19	D. 24, H. 3, Road to Flat B					-	2nd Floor	-	Not crowded	-	Open air
3	-	19	D. 22, H. 12, South Port		19		-	-	-	-	Crowded	3	Street
51	M.	19	D. 25, H. 10, Levy's Buildi	ing -	Not drained	Bad	Bad	Yes	Ground Floor	-	20	1	Court
13	79	19 ,,	D. 19, H. 7, Prince Edward	d Road	Drained	Indifferent	Indifferent	20	Terrace	Clean	Not erowded	1	tropping and the same of the s
	-	otion of a state	ANY THE	data la			part .	1				-	100
50		19	D. 26, H. 25, Willis's Road						Ground Floor	Not clean	Crowded	1	
00	-	mon sperious l	27, 20, 211 and 11 and 2 and 11			1		-	Oldmin Tron	2.00	Amos	diam'r.	edels green
44	F.	19 "	D. 21, H. 7, George's Lane									2	
				attenues.				otoud vol	The mind	10000	0.0	ALT .	
2}		19 "	D. 9, H. 12, Market Lane	. 3			Court bad		3rd Floor	Clean	Not crowded	2	Outer a
33		19 "	D. 19, H. 15, Library Gard	ten -			Indifferent	-	2nd Floor		+	2	Court
50		19 ,,	D. 26, H. 27, Willis's Road			Bad	Court bad	Yes	Ground Floor	Not clean	Crowded	2	Court ar
	100					Land to	1072		The same of	-	School State	-0.815	open air
2	М.	19	D. 14, H. 2, Roggers Ramp	D		Indifferent		9800	med s	Seminary .	1	1	Court
48	F.	20 ,,	D. 25, H. 10, Levy's Buildi	ing -	Not drained	Bad	Bad			-		1	
22	-	20	D. 24, H. 41, Prince Edwar	rd Road	Drained	Indifferent	Indifferent	-	2nd Floor	Clean	Not crowded	1 2	militie John
5	-	20	D. 27, H. 4, Willis's Road				dax	-	Ground Floor	Not clean	Crowded	1	Street
50		40	D. 11, H. 24, Serruya's La	me .		Badly	-	hones no	Drawn Live	- 10	Not crowded	2	Court
100	-		Charles and the second of the second of the			Indifferent	0	l viii	2nd Floor	Clean	Crowded	4	Street
20	-	21	D. 12, H. 3, Cornwall's Las	ne ·	*,15 T	Instruction	Good	maxi val	Zind Floor	Crown	Clowner		Descen
60	M.	21	-011			-	-	Propertol	-			4	
42	F.	21	D. 19, H. 7, Prince Edward	d Road	0 -		Indifferent	Yes	Ground Floor	Not clean	men a	1	Court
16	N	21	D. 21, H. 21, Church Stree		,uT	367	2000	1	2nd Floor	Clean	Not crowdes	1 2	Street
					"-	-		with the	Ground Floor	Control of the last	Bried In Suit	OUT.	Court
44	F.	21	D. 5, H. 11, Castle Ramp.	1(21-0)			.30	-		-		1	
23	M.	21	D. 26, H. 25, Willis's Road		N		.00	7-	1st Floor		* 500	0.32	Outer ai
60	F.	21	D. 21, H. 11, Town Range	state mod	Non-	- PAST	10	Yes	2nd Floor	Not clean	Crowded	1	Yard
					Count	Comin	and and	1	Laborate I	Clean	- Juni	1	Court
34	М.	21	D. 27, H. 24, Cavallero's Y	aru -	drained -	Court very bad.	Court bad		Ground Floor	Cican	man T	chica a	Court
52		21 "	D. 2, H. 8, Road to the Liz	nes -	Drained	Instifferent	Indifferent	-	3rd Floor	-	START .	1	Outer ai
1/4		17	D. 26, H. 32, Castle Road	Ania a Ca	nost	Court		-	Ground Floor	Not clean		2	Court
72	F.	22 .	D. 21, H. 21, Church Stree	100		very bad. Indifferent	-	Yes	2nd Floor	Clean	Not crowdes	2	Street
68		23	D. 3, H. 50, Castle Street	Into pro	0 4	Street and			14		that that	3	
-00			4 4	1		court bad.	Total best	-	-	1 -		1	entista gress
37	M.	22	D. 26, H. 12, Baker Passag		Court undrained	Very bad	Indifferent	harmal	Dieus Un	Settletist.	Section 3	2	Outer a
61		22 ".	D. 19, H. 5, Prince Edward	d Road	Drained	Indifferent	200	med mi	Ground Floor	- Alleral	Bibel	1	Court
16		22	D. 11, H. 39, Castle Street	Sale my	0	Bad	200	Yes	2nd Floor		Crowded	The state of	Outer a
46		90	D. 3, H. 52, Castle Street	anguard	0	The control	100%	neoned with	Maken City	Not clean	March 1	1	Court
			D. 26, H. 17, Gully Steps									38	
48	F.	23	D. 26, H. 25, Willis's Road	d -	*10Y	Indifferent		H-	Ground Floor	Not clean		1	100000
Wa.						antinegent	- All	DECOUPTS.	THE THE				-01000
39	-	23	D. 21, H. 11, Town Range		0 .007	- Mag	-M		(Condition)	- "	phati . has	T Short	Orane Comments
	10	23	D. 27, H. 12, Willis's Road	d -		Bad	10	,,	-			1	-
14	1						Bridge Bridge	THE PERSON NAMED IN COLUMN TWO	A P C OFFICE AND ADDRESS OF THE PARTY OF THE	The second second second second	The same of the sa	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO	18
14 45		23	D. 25, H. 6, Arengo's Yard	d .		-	Court bad			Very dirty		1	Court
000	м.	-	D. 25, H. 6, Arengo's Yare D. 39, H. 9, Prince Edwar		-	Indifferent				Very dirty		1	Court .

of Gibraltar where Deaths from Cholera occurred during the Epidemic of 1865—continued.

			Water Supply	y.				House I	Prainage.			
James Market		Lane Control	La contra	(sunte In	otals.	and the same of						
Doors:	40	Quality	distracts	special ripor	er sulfator	Linares	What her	Any Smell	Nature		Whether	
whether	100	at the		How	Situation	Whether	Whether any open	from such Gulley	of	How	Nuisance	
opening into a	class pro	Time of	Quantity:	Drawn		any	Gulley	or Sink	Privy	Privy is supplied	or Smell	
"Common		Attack:	" Suffi-	from	Water Tank :		Sink in	Time the	Accommo-	with	arose	REMARKS.
	Whence	"Good," "Clear,"	cient," or	Tank," or	"Under "Room," or	House	or	Patient was attacked,	dation;	Water:	from Delem of	
Stair," or into	derived.	"Muddy,"	"In-	Well," "Carried,"	"House,"	Drains:	Court close to	or whether	Sink," or	Pipe," "By	Privy at Time of	
the	-,00	"Tasted	THE STATE OF THE S	"Drawn	"Under	"Yes,"	the House	opened	"Common	Hand,"	Attack:	70000
"Outer Air."	August A	hadly,"	sufficient."	from Pipe," &c.		or " No."	"Yes,"	Room	Privy."	"Not supplied."		
Published Wind		&c.	Santa San	STREET,			or " No."	or House affected.	Ac. &c.		or "No."	
			10000					autorea.				
	_	37	Town Walland	D		W	W.	v.	0	N	77	
Outer air	Tank	None	Insufficient	Drawn	House and court.	Yes	Yes	Yes	Open sink	Not supplied.	Yes	A managed A B
ommon stairs		Good	Sufficient		Under house		_		1 3007		No	
200000	Daniel Carl	Badly	Insufficient	Carried	N. Landon	9	Ven	Yes	18 TO L	DILY SETT	Yes.	12 - 22 - 22
Court	Ragged Staff	Bauly	Linkumerens	Carried	197	-	Yes	168	- 2	toll child	7 25 72 3	A BAI
Investigate.	1 7		4 100	sold Bear	0 -	10	-			-		- 72 - 5
Street	North Front	10 m		most but	-	No	Marie		No privy	of Little	Total State	A . T. N .
ommon stairs	-				-				**	-	**	-
4	Ragged Staff	HOIO,	40,013	soft breeze	0 -	Yes	Imposts	at u	Open sink	off Zellin	To B. S.	A . B . 1
Court			and south		_	No	wibell.		4	and the latest and th	O.B.R.	JT - 15 - 6
Carried 1	-	Cond	man -	Down	Under bene-		however 17		On on what	ANT MARKS	1 20 11 11	Mha hann til 3
Terrace	Tank	Good	-	Drawn	Under house	Yes		"	Open sink and com-	-		The house is under t street, and all rooms a
**		100	Supplied of	"	н.			10.	most privy.	e smday;	a fairt	damp.
Court	Ragged Staff	Badly	-	Carried	-		-		Common	-	**	Court in a very bad sanita
									privy.			condition.
Aug.	I "baber	105-0072	mur27	world bed	-	2010	-			mit Stan	a state	The court in a bad sanita condition, and a very b
	m h	Cond	Coefficient.		Washer sound				Maria .			smell arises from drains
ommon stairs	Tank	Good	Sufficient		Under court		100	-	-7 00	and about	D. W. T. C.	A . R 3 4
-	4 4	-	-	Drawn	1		-		. "	off o'bliff	200 Dice.	d M. St D.
Court .	Ragged Staff	Badly	Insufficient	Carried	-		Yes	Yes	Open sink	AND BUILD	or a Street	Court in a filthy state, a
						-				-		the room unfit for a human use.
-	-	-	-		-0			-		-	-	
W	to from	-	-	700	-	No	-			二年度 中	A STATE	A
ommon stairs	Tank	Good		Drawn	Court	Yes		-			31	_
Outer air	Ragged Staff	Badly		Carried	-	-					-	
Court	Tank	Good	-	Drawn	Under house				- other	Den Delam	TANK OF STREET	g . 10 . u
		0000	1	10000000		**			. "			
ommon stairs	North Front	*	-	Carried				100	Common privy.		No	
			1				_	_		1000	100	The state of the s
0"		1 794	4	Drawn	Under house	-	had the	0 1 -	A Marie	Congillated.		A 45 - 0
Court	Tank	*	5	Driawin	Chuer nouse	-	Yes	Yes	Open sink	-	Yes	
ommon stairs	Ragged Staff	-	-	001-000	-					and the same	' н	
-	-	-	-	-	-	-	-		- 4	only still	MINING THE	THE PERK IN
America 1	Ragged Staff	Badly	Insufficient	Carried	-	Yes	Yes	Yes	Common	mi gen	Yes	A 1
2000	A dealer			world him	-				privy.	mil vites	I AT BE	.C
-			-				-	11	Open sink	-	-	-
Court			-	-	-		-				-	-
					1	R	-		Transmit a	W. 25 bod	100 -10 300	10 00-10
ommon stairs	Tank	Good		-	Court		-	-	Common	The Paris	A. or Torris	6 - T V
0-1	Discourse	10-31			1	7.00	1	-	privy.			
Court	Ragged Staff	Badly	-	-		- 14	-		-	By pipe	No	
ommon stairs		Good	7 4075		2	-	Yes	Yes	Open sink	Not	Yes	AL
or or other s	i Tiplem	10 60%	ENGT -	Street, or heat,	1 1000	."	11	165	Open sink	supplied.	51 (C.M. AS	W - W - W
100	I leby	Waters	upplied from	H. 51.	0	****			Common	SH STATE	MUNIC	Court in a filthy state.
	1				167	11.5	Lod two	0	privy.	Santing	28.31.39	0
Court	North Front	Badly	Insufficient	Carried	-	No			Open sink	-	T 10 70 m	The court is in bad sanits
RET TO	1			D	11.				A			condition.
**	Tank	Good	med),	Drawn	Under court	Yes	Int-Old	1 5 to	Common privy.	our is fairly in	-	
mmon stairs	North Front	Badly	3	Carried	11	-	Yes	V.	137	- 11	177	- 11 11 11
STATE OF THE PARTY	M0000000000000000000000000000000000000	488	Partial and		Washing		168	Yes	Open sink	A richard	W SOLN	C - E - B
Outerair	Tank	Not good		Drawn	Under court				- " 2001	2 morney	WATER	U . H. H. W
Court	1 .	Good	Insufficient	ou billions			hart on	hand and	. "	All Page	AT. 5	0 . 70
-	Ragged Staff	Badly	in a	Carried	=		-		Common	-		a
B. Lan	The state of the s					THE PERSON	and formati	Area Ling Co	privy.	and the same of the same of		
-			100 to 5 100	ill hamoi	-	10	100	0 "		The Party of the P		This yard is in a bad sa tary condition, and a
St. ween	Tout	Cont	contract to	Discount	1	1 1 1 1			1			very dirty.
1	Tank -	Good	-	Drawn	-	110	-	10 41		-		Court in bad sanitary edition.
100	Ragged Staff	Badly	20	Carried	-	No	-	1 200	Onen sink	a section	JI 33 30	The room is very dirty, a
A STATE OF THE PARTY OF THE PAR	1			Carrier Page	1 3			7.5	Open sink		11 77	bad smell arises.
1200101		The second second	2 4 6 6	The Party of the P	1	- 101	1,000,000	1 22 9	A B HANG B	THE RESERVE	SAME AND STREET	A NAME OF THE OWNER, T
TRANSPORT	Tank	Good	Sufficient	Drawn	Under Court	20	-	-		-	10	_
	Tank	Good	Sufficient	Drawn	Under Court	Yes	-	-	Common		# ST 15	

Table XII .- Statistical Return showing the Sanitary Condition of Dwellings of the Civil Population

B .- Town o

_									100 may 100 mg			—Town
Fatal	Cas	es of Cholera.					State	State in	State		W	indows.
			adapte and	State	State	State	whether	which Floor	whether the Walls,	State whether, at		
			Number of District (D.)	whether	whether	Sanitary	any	of the	Ceilings, or	the Date		State
			and	the Street	the	Condition	Nuisances	Committee or the Control of the Cont	Floors of	of Attack,	State	whether
		Date		or Court	Surface was	of Street	were	Patient was	the House	the Inmates	No.	the Windo
Age.	Sex.	of	Number or	Was	"Properly	or Court :	com- plained of	attacked: "Basement,"	were	of the Rooms	in	
		Death.	Designation of House (H.)	"Drained"	paved," or "In-	"Good,"	at or	"GroundFloor,"	"Clean,"	were	affected	open inte
		areates.	where attacked.	or "Un-	different,"	"In-	before the	C. Strate of the Control of the Cont	"In-	Crownen,		a "Street,
				drained."	or "Bad."	different," or "Bad."	Time of	"1st Floor,"	different," or "Not	"Not crowded," &c.	Room,	" Court,
			37. 1			or Bad.	Attack.	"2nd Floor,"&c.	clean,"	crowded, ac.		or " both.
30	F.	1865. 23 September	D. 26, H. 25, Willis's Road -	Drained	Indifferent	Indifferent	Ingle man	2nd Floor	Clean	Crowded	1	Outer air
61	M.	23	D. 27, H. 13, Willis's Road -	-	Badly		_	Ground Floor		(Co.)	2	Street
8	F.	23	D. 27, H. 35, Willis's Road -	**	Indifferent		Yes	2nd Floor		The same	1	100
4		23 _						Ground Floor			1	Stable-ya
9	M,	23	D. 26, H. 30, Paradise Ramp	-	Badly			2nd Floor		Not crowded	2	Court
4	10	23 ,	D. 27, H. 35, Willis's Road -		Indifferent			Ground Floor		Crowded	1	ettina enge
40		ž3	D. 3, H. 51, Castle Ramp.	_	Badly				Not clean		1	Street
7	F.		D. 27, H. 35, Willis's Road .						Clean		1 3 7	
		State of the latest of the lat			Indifferent			The state of	100000		11	Court
3	М.	24	D. 7, H. 5., Waterport Street .			Court had			Not clean		None	
	NA II	THE STATE OF	ST. I San Design	0.				HER		THE THE	Magnett	hips/2
34	M.	26	D. 2, H. 13, Road to the Lines -	-		Indifferent	-	2nd Floor	Clean	Not crowded	1	Street
52	F.	24	D. 21, H. 21, Church Street -	_			Yes				2	
6	M.	24	D. 25, H. 26, Willis's Road .					Landon V	-	- 1	2	160
67	100			" W	-			Supple 1	the state of	Crowded	3	2000
			D. 27, H. 7, Willis's Road	-	-					Crownen		
33		24	D. 4, H. 12, Irish Town		-		-	-		Not crowded		
						1/6	- 27mi/Oc	LOVE L		Dieth Long	INT.	valence man
								Debried		Stall Stall	ments.	Want
63		25	D. 25, H. 24, Lime-kiln Gully .				-	Ground Floor			- 1	
61	P.	24	D. 14, H. 3, Rogger's Ramp.			Court bad	_	hillword.	Not clean	Crowded	1	Court
						A all files	1 1	- 77 75 -				1
28		24	D. 27. H. St. Cavallero's Yard.		Court bad		Yes	2nd Floor			2	
			D. 27, H. 33, Cavallero's Yard, Willis's Road.	7	Office State		simply sh				-7	1
4	M.	24	D. 27, H. 35, Willis's Road -		Indifferent	Indifferent		Ground Floor	-		1	
11	F.	25	D. 26, H. 24, Willis's Road -				-	-	Clean		1	
7	-	25	D. 11, H. 23, Seruya Lane .		Bad		-	20000		Not crowded	1	Street
3		44	D. 3, H. 17, Lynch's Ramp		3,000		-	2nd Floor		Crowded	2	Court
			o, o, it. it, iducti s mamp.		-		1	2100 2 3000	-	Crowded	-	Court
24	10	25 "	D. 25, H. 45, Road to Flat Bastion			,,	-	1	,,	Not crowded	2	1910
66	M.	25	D. 3, H. 16, Lynch's Ramp				7000			born 1 9	1	make sugar
	F.	-				"	200	-				-
5	F.		D. 21, H. 7, George's Lane		Indifferent		Yes	-		Crowded	4	
30	10	26	D. 22, H. 12, Southport Street -		-	**	10	-	Not elean		3	Stree
21	М.	26	D. 24, H. I, Prince Edward's Rd.		-		-	3rd Floor	Clean	Not erowded	2	Both
33	F.	26	D. 26, H. 25, Willis's Road -			- 10	-	Ground Floor	Not clean	Crowded	1	Cour
56	М.	26	D. 27, H. 23, Cavallero's Yard .		Court bad	-	Yes	-			1	
60	F.	24	D. 25, H. 44, Road to Flat Bastion				_		24	The same of	1	The same
5	M.	26	D. 27, H. 35, Willis's Road .		Indifferent		Yes		Clean	Not crowded	1	
10	F.	100		"				1 1 2 7 1 1 1	1 2000	Crowded	1	
26		-			-	"	"	2000	West alson	White Build	100000	N
	37			"			"	200	Not elean	Access to the same	None	Non
26	M.	The state of the s	D. 9, H. 8, Waterport Street -		-			2nd Floor	Clean	Not crowded		Common
24	М.		D. 25, H. 10, Levy's Building -	Undrained	Very bad	Indifferen		Ground Floor	Not clean	*	1	Cour
28	F.	28	D. 3, H. 36, Engineer's Lane -	Drained	Indifferent	Court bad		2nd Floor	Crowded	Crowded	1	
9	М.	28	D. 3, H. 52, Castle Ramp.		Bad		-	Ground Floor	Not clean		1	Stree
25	F.	28	D. 5, H, 27, Lower Castle Road -	ъ.,	Indifferent	- 10	-	2nd Floor	Clean	100 m =	2	Outer
56	F.	28	D. 22, H. 11, Southport Street -			-	-	Ground Floor	-	Not crowded	1	Cour
G	M.	The same of	D. 25, H. 41, Road to the Devil's		Bad		-	2nd Floor		"	2	Stree
		-	Gap.				A 1000	The second second	Mark Mark	Post I	1	
32		28	D. 27, II. 33, Cavallero's Yard -			Court bad	Yes		Not elean	Crowded	2	
31	F.	30		1			·	Ground Floor			1	Cour

of Gibraltar where Deaths from Cholera occurred during the Epidemic of 1865—continued.

Gibraltar—continued.

			Water Suppl	у.				House D	brainage.			
Doors: whether opening into a "Common Stair," or into the "Outer Air."	Whence derived.	Quality at the Time of Attack; "Good," "Clear," "Muddy," "Tasted badly," &c.	Quantity: "Sufficient," or "Insufficient."	How obtained : "Drawn from Tank," or "From "Well," "Carried," "Drawn from Pipe," &c.	Situation of Water Tank; "Under Room," or "House," "Under Court," &c.	Whether any House Drains: "Yes." or "No."	Gulley or Sink in the Street or Court close to the House	Any Smell from such Gulley or Sink at the Time the Patient was attneked, or whether any Drain opened within the Room or House affected.	Privy Accommo-	How Privy is supplied with Water: "By Pipe," "By Hand," "Not supplied."	Whether Nuisance or Smell arose from Privy at Time of Attack; "Yes," or "No."	Remarks.
Common stairs	North Pront	Badly	Insufficient	Carried	-	Yes	-	4 Indes	Common privy.	Not supplied.	Yes	d plant A la
Court	Tank	Good		Drawn	Under house	-	Yes	Yes	Open sink	-	THE SECOND	W
ommon stairs	29	-		-	Court		-		. 16	and the same	-	a
Court			Sufficient		20	-	Marie .		"	quadi oti	io en	al -manter - 1
Common stairs		Badly	Insufficient	and the	"	-			Common privy.	-		
Court	**	Good	Sufficient		10	-	-	20	Open sink		-	_
Outer air			Insufficient			-	70		79	**	A STATE	4 - 4 3 5
Court	**		Sufficient								-	_
	North Front	Badly	Insufficient	Carried	-	-	-	-				The room is without
the same of		m mot	exact.			1	Daniel Co.	el _ ·		-	Design of	window, very dark, da and unfit for human The house is in a fil
Common stairs	20			and Paris	-	No	-	-	Common		Ban III a	state, and dangerous.
-	Ragged Staff	mant.		mark bet	_	Yes	Yes	Yes	privy. Open sink	on version	W.A.W.	A
		20		-	_				n n			_
**	Tank	-		Drawn	Terrace						GI STALLS	
			7	- Service	and house room.				AZ PORT		OR ATLAN	111 - 1 34 30 1
	. 501	Good	Sufficient	mery lumb	Under house		-		Open sink in the yard, and	210,00	THE .	
			e e	PER SERVICE SE	a Material	100	Inches (III)	and	privy.	Ser we	(0.2 計算	A CONTRACTOR OF
Cogrt	-		Insufficient	-			Yes	Yes	Open sink		-	
	North Front	100		Carried	-		-	-			-	Died in hospital. ?
10		Badly			-		Yes	Yes		70	HAT AND IN	live in.
the said	Tank	Good	Sufficient	Drawn	Under Court				-	o de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela	Day II	
Short of	North Front	Badly	Insufficient	Carried	_	No	_					
Manager State	Tank	Good		Drawn	Under house	Yes	-	_				
Common stairs		Not elear		100			Yes	Yes	all miles	of the bar		The water closet is supply the rain in with only.
		Good		-			-		Common privy.			-
Court	-		mint-	-	-	hes Table	7.0	-	-	-	-	
Common stairs	Ragged Staff	Badly	Insufficient	Carried	-	Yes	Yes	Yes	Open sink	Net supplied.	Yes	_
"			FO. 40 -1 1		To be been	-		-			-	
Court	Tank	Good	[Sufficient	Drawn	Under house Under court	and Toronto	1000	11.		100	-	M
market 1	Ragged Staff	200%	Insufficient	Carried	- Cauce Court	10000	Yes	Yes				Died in hospital.
20	Tank		10	- Drawn	Under house			200			-	anou in mospitat.
			Sufficient		Under court	-		-		100	100	W - W - 1
Total I				-						al moto	1.11	0 - 1
	North Front	Badly	Insufficient	Carried	-	100	-			side group	100	0 0
Common stairs		Good			-		-			-		
Court	Ragged Staff				-	No	-			-	-	
Common stairs	North Front			med par	-	Yes			- 11			W = 1 1
Street	Tank	Badly	Sufficient	Drawn	Under court and house,	,		-				-
		Good	- "	and the	Under court	100	-	-	Common privy.			
Court	-		Insufficient				Yes	Yes	10000			
Common stairs						No	-	-				_
Court	Ragged Staff	Badly		Carried	-	Yes	Yes	Yes	Open sink			
							-		The second	- 10		

Table XII.—Statistical Return showing the Sanitary Condition of Dwellings of the Civil Population

B.-Town of

Part									-		Dong	10,000	-100n oj
Number of District (1)   State   Sta	Fata	d Ca	ses of Cholera.	- Villa				State	State in			1	Windows.
Number of Posterior (D)   whether					State	State							Transport of the last of the l
Date   Date   Number or   Number or   Property   Control   Number or   Number or   Property   Control   Number or   Nu				Number of District (D.)			-	The second second			P. Harrison St. Co.,		State
Number of the content of the conte			123	and							St. of the late of	State	whether
Parameter   Para			Date	Number or						The state of the s	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T		the Windows
Death   Possible   P	Age.	Sex.	of	and the same of the same of		State of the latest and the latest a		The second second second			were	ım	open into
			Death.				T AND GOTTON			100000000000000000000000000000000000000	" Crowded,"	affected	a "Street,"
22   N.   1860.   18				The state of the s	drained."	10 mm 500 m 600 m 65 m 100		and the second second second	The second secon		"Not	Room.	"Court."
1				Water Transferred at the	and the same of	Or Date	or "Bad,"		And the state of t		crowded," &c.		THE RESERVE OF THE PARTY OF THE
22   N.   2				"/o)E " to	- John	4				ciean.	-58		
1	21	F.	1865. 30 September	D. 14, H. 29	Drained	Bad	Court had	_	Ground Flo	Not clean	Crowded	1	Court
1	.00		90	D 14 H 92			Indifferent			-	The same		Name of Street, or other Persons
22   M   2					O . MI			200	ALL PARKET				1000
22   M. 2		188	The state of			THE RESIDENCE		-		a delication	1		1000
Bad			-	m and amount	9 .			41.1		hondina	spet		refer to promote a
2	23	M.	2	D. 2, H. 10, Read to the Lines -	10 "	Indifferent		52.04	2nd Floor	resistant.	Dood T	1	Outer air
66	30	F.	2	D. 16, H. 7, Baker's Passage		Bad	.*		Ground Floor	Not clean		1	Street
23			-		- 4		"	"	"	min and			Pariety .
22   M.   3	64	-	2 at moon.	D. 25, H. 41, Road to Devil's Gap	- "			-	2nd Floor	Clean	David " dent	2	
1	43	79.	3	D. 18, H. 24, Governor's Street -	-	Indifferent		-			Not crowded	1	Outer air
16   F.   3	23	М.	3	D. 24, H. 42, Prince Edward's Rd.	0			77.0	Ground Floor		Crowded	1	Court
10   P.   3     D.   15, H.   2, King's Street               Terrace       1   Terrace     1	40	**	3	D. 3, H. 8, Waterport Street .	0 -07	Mar	. # 7	-	3rd Floor	.,	Not crowded	1	Common stai
6 M. 3 D. 2. H. 23. Read to the Lines	16	P.	3	D. 15. H. 2. King's Street		-		-	2nd Floor			2	
Ded.	6	м.	3				-	tegrad massa.h	Terrace	4		1	Terrace
Description   Court	6	,,	4	D. 4. H. 23. Turnbull's Lane -		Court very		Yes	Ground Floor		Crowded	1	Court
67 F. 4 . D. 13, H. 20, City Mill Lane		XS.		100 L		bad.	-40			The same of		1	
Both   Source   Sou	60		2	D. 25, H. 4, Arengo Yard		Indifferent		*		-		1	
2	67	F.	4	D. 13, H. 29, City Mill Lane -	10 mil	200	*	-		Degasticies		- 1	hight
2	65		the state of	D. 13. H. 9. Westernord Street		LA	199	-		"	Not crowded	2	Both
28			- 1111 00									2	Court
### ### ### ### ### ### ### ### ### ##	28		5	D. 17. H. 2. Church Street					- 4th Floor			3	
2				2. III III II COMPUNICO			635		Johnson A	edulineen!		L	
62 M. 6 . D. 3, H. 3], Carroras Yard			-		-	-	w.X		Drawn Da	4	See D	12	into anothe
62 M. 6	42		5	D. 25, H. 47, Road to Flat Bastion	mY	103			2nd Floor		1000	2	Court
87	62	м.	6	D. 3. H. 31. Carreras Yard -				-	3rd Floor	Not clean		1	Outer air
256 F. 6 D. 26, H. 5, Baker Passage	100			A STATE OF THE STA	3		FEW CONTRACTOR	Yes	Ground Floor		Crowded	1	Court
25   F.   6     D. 26, H. 5, Baker Passage	4	,,	6	D. 3, H. 51, Castle Ramp		Bad	Indifferent		2nd Floor	Clean	Not crowded	2	Street
12				1 W Marin	O self	202	No.A.		Inbrada II	Not elean	Crowded	1	relate moone d
52 M. 6 D. 2, H. 10, Read to the Lines Indifferent 2nd Floor Clean Not crowded 1 Outer air 53 7 D. 13, H. 17, Church Street										HGT-751-757	1		**
53	12	"	6	D. 25, H. 24, Willis's Road -	-	Indifferent	Court bad.	diam'r.	Ground Floor			1	build
58	52	М.	.6 close dela	D. 2, H. 10, Read to the Lines -	rest	n 7	Indifferent	7	2nd Floor	Clean	Not crowded	1	
38       7        D. 10, H. 11, College Lane           2       Street         50       F.       7        D. 24, H. 23, Road to the Lines	53		7	D. 13, H. 17, Church Street -			7.	numer and	- Innert			2	
50 F. 7 D. 2, H. 23, Road to the Lines	38		7 . :	D. 10, H. 11, College Lane .				-	3rd Floor			2	Street
60	50	F.	7	D. 2, H. 23, Road to the Lines -		**		-	2nd Floor	10.50	ma - 160	1	200
50 7 D. 27, H. 8, Willis's Road	45	М.	7	D. 24, H. 42, Prince Edward's Rd.	- "		-	277	Ground Floor	Not clean	Crowded	1	Court
50 7 D. 27, H. 8, Willis's Road	60	,,	7	D. 17, H. 3, Gunner's Lane .			. 11	-	2nd Floor	Clean	Not crowded	1	Outer air
9 " 8 " - D. 27, H. 23, Cavallero Yard - " " Court bad. Yes 2nd Floor " " 1 " " 72 F. 8 " - D. 24, H. 1, Prince Edward's Rd. " " Ground Floor " " 1 " " 1 " 1 " 1 " 1 " 1 " 1 " 1 "								o to the south		Not clean	Crowded	1	Court
72 F. 8 D. 24, H. 1, Prince Edward's Ed		10			0 -	_							
72 F. 8 D. 24, H. 1, Prince Edward's Rd	9			D. 27, H. 23, Cavallero Yard -			Court bad.			I Salling at			
58 . 8 . D. 14, H. 18, Governor's Street Indifferent Indifferent — 2nd Floor 'Clean Not crowded 2 Outer air						200	-	Service .		. 10			and the same
The state of the s		**	25	D. 27, H. 19, Willis's Road -	0	L'ay			Automotic land				A STATE OF THE STATE OF
	58		8			The second second second	E-E-Control Control		2nd Floor	2000000	Not crowded	-	Outer air

Gibraltar where Deaths from Cholera occurred during the Epidemic of 1865—continued.

\*\*Draftar—continued.\*\*

		,	Water Supply									
Doors,	7	Quality	madded v	minimin Min Front	Marine v		Med	Any Smell	Nature		Wiether	
whether		at the	Mary est	How	Situation	Whether	Whether	from	of		Nuisance	
ning into a		Time of	Quantity:	Drawn	of	any	Gulley	such Gulley or Sink	Privy	How Privy is	or Smell	
		Attack:	"Suffi-	from	Water Tank :	Assessed to	Sink in	at the Time the	Accommo-	supplied	nrose	2000
Common	Whence	"Good,"	cient," or	Tank" or "From	"Under	House	the Street	Patient was	dation:	with Water:	from	REMARKS.
ir," or into	derived.	"Clear,"	A CONTRACT OF	Well,"	Room," or	Drains:	Court	attacked, or whether	"Open	"By	Privy at	
tho	derived.	"Muddy,"	"In-	"Carried," "Drawn	"House,"	"Yes,"	close to	any Drain	Sink," or	Pipe," "By	Time of	
Outer Air."		"Tasted	sufficient."	from Pipe," &c.	"Under		attacked :	within the	"Common	Hand,"	Attack:	
Julice Jaies	1	badly,"		rapes each	Court," &c.	01 210.	or "No."	or House	Privy,"	supplied."	" Yes." or " No."	
		dec.	"James 1"	1,000			2.01	affected.	ac.ke.		or No.	
mon stairs	Ragged Staff	Badly	Insufficient	Carried		Yes	Yes		Open sink	Not	Yes	Court in a filthy state.
	Tank	Cond	choun	Post	Tier des count				100	supplied.	v.	20 4 . B AE DE
		Good		Drawn	Under court		-	-	Common privy.		No	
Court	North Front			Carried			-	-	-		Yes	20
**	Tank		Sufficient	Drawn	Under house		Yes	Yes	Open sink			
nmön stairs	North Front		Insufficient	Carried	-	-			Common privy.			
Court					_		Jast 2	PT .			-	This room is close to the
drate						monsta	i iii	att "	1	or init si	DMIII	privy, and is very damp and a smell arises very disagreeable.
amon stairs	Tank		-	Drawn	Under court	No	-		100	mili Kando	I STATE	TO TO 2 00
	- 100				Market Street		food are	n la la	4 200	and and the	III. DE. III	E - a E a B
		werd.	Sufficient		Under house	Yes	2000	MIT .	Cont.	Total Control	T. HELL	E
Court ad 3 doors.	Ragged Staff	Badly	Insufficient	Carried	-		-		Open sink	produites	Diana	N - 1 - 11 H
	North Front				6 -N		-	-	Common	-	1.125	A privy is inside the kitcher
	Tank	Cond		Descrip		-	No.	Y.	privy.	still Alond	p.m.m.	12
Terrace		Good	-	Drawn	Total bosses	-	Yes	Yes	On an almb	-		
Terraco				SCHOOL MICHIGA	Under house	-		" "	Open sink		-	
Court	-	7.	Sufficient	with the	Underkitehen	1	-		Common privy.			Privy in a filthy state, ar a smell arises from a sin that is at the street door
	North Front		Insufficient	Carried	-	-			Open sink		-	Died in Hospital.
	Tank		mota.	Drawn	Under house	-	-	- "	Common		25.1	
mmon stairs	North Front	1000		Carried	-	-	ment	etal	privy.	Post and	No	10 to 10 to 10 to
	Tank		Sufficient	Drawn	Library yard	1		1	ound on	1	of strate	4.0
Room			Insufficient		Under house	-	Yes	Yes	100 000	No. of Parket	Yes	The second of
and it	T Total	ment.	Insunicent		Chart house	-	108	les	- "	The same	12.15.11	A COLUMN
	8		7 -	salff lie	1-10-1				-	-	en gran,	out u - 1
emmon stairs		-	-	-	0 -		-			-	No	
	Tank	Good	Sufficient	Drawn	Court		Yes	Yes	Open sinl		Yes	
-					150000		1 cs	100	Open sim		Aus	Mile house to be a Chiberth
Court	North Front	-	Insufficien	Carried	-	No			н	-	1000	This house is in a filthy sta and dangerous to live in
ommon stairs	Tank			Drawn	Under court			1		-	M.S.Com	44 - 4
-	1-2				Court					-	11/2	4 3 .
Court	The state of		use IO	Soft he	Under house	e No		-		to I van	PF andin	M4
ommon stair	North Fron			Carried	Commercial							
The second second	100000000000000000000000000000000000000	-	-	Carried		Yes	Yes	Yes	Common privy.			
12.0	Comi Square	"		-	-		-	-	-	-	-	-
	Tank	-	Sufficient	Drawn	Under hous	e "	Yes	Yes	-	-		_
ommon stair		-	Insufficien		-			-	Open sinl	-	-	
Court	Ragged Stof	Badly	-	Carried	-		-	-		-	-	-
mmon stair	* OF 2 h	1	HOUSE !	TO.	William .	Total Post	24	t bur	Common	in Laboratory	N.A.A.	art poles as In the
Court	- Labor	-		tool Las	-		Yes	Yes	Open sini		-	A
n										1		
		Land of			L. Carrier	-			3	A Contract	barra.	Work to water 12 to an
	Tank	Good	Sufficient	Drawn	Under house		-	-				Tank is under this room.
	Parmed State	The H	Town Or	1 Comment				-				1000
mmon stair	Ragged Stat	Badly	Insufficien	t Carried	-	No	Yes	Yes	-	-	-	

Table XII.—Statistical Return showing the Sanitary Condition of Dwellings of the Civil Population

B. -Town of

Fata	l Ca	ses of Cholers.		clips of many			State	State in	State		,	Vindows.
Age.	Sex	Date of Death.	Number of District (D.) and Number or Designation of House (H.) where attacked.	State whether the Street or Court was "Drained" or "Un- drained."	State whether the Surface was "Properly paved," or "In- different," or "Bad."	State general Sanitary Condition of Street or Court: "Good," "In- different," or "Bad."	whether any Nuisances were com- plained of at or before the Time of Attack.	which Floor of the House the Patient was attacked: "Basement," "GroundFloor,"	whether the Walls, Ceilings, or Floors of the House were "Clean," "In- different," or "Not clean."	State whether, at the Date of Attack, the Iomates of the Rooms were "Crowded," "Not crowded," &c.	State No. in affected Room.	State whether the Windows open into n "Street," "Court," or "both."
Yrs.	P.	1865. 8 October -	D. 22, H. 8, Victualling Yd. Lane	Drained	Indifferent	Court bad	Yes	Ground Floor	Not clean	Crowded	1	Court
42	м.	8	D. 4, H. 25, Bedlam Court -		-	Indifferent	-	2nd Floor	Clean	h. 0.	2	*
2	F.	7	D. 22, H. 8, Victualling Yd. Lane	-		Court bad	Yes	Ground Floor	Not clean		1	
35		9	D. 6, H, 19, Bell Lane			Indifferent	-	2nd Floor	Clean		1	10
20		10 ,	D. 9, Baths, Irish Town -		-	-	-	Ground Floor	-	Not crowded	2	10
19	-	10	D. 14, H. 29		Court very bad.	Court bad	-	2nd Floor	-		1	16
63	М.	11 " -	D. 13, H. 36, City Mill Lane -		Indifferent	Indifferent	-		-		2	Outer air
54	F.	11 " -	D. 19, H. 15, Library Garden -		-		-		-	-	2	Court
53		12 " -	D. 2, H. 12, Road to the Lines -		Court bad		Yes				2	Both
30	**	12	D. 15, H. 17, Bomb House Lane	-	Indifferent		-		-	Crowded	2	
28	M.	12 " -	D. 17, H. 2, Church Lane -		-		-		1000		2	Outer air
60	P.	13 " -	D. 25, H. 4, Arengo Yard -				Yes	Ground Floor	-		1	Street
60		13	D. 21, H. 22, Church Street •			-	-	3rd Floor			2	Both
71		16	D. 5, H. 3, Castle Ramp .		Bad		- 1	Ground Floor	100		1	Street
7		14	D. 24, H. 44, Prince Edward's Rd.		Court bad		20-		Not clean		1	Court
6		15 " -	D. 22, H. 12, Southport Street -				-	2nd Floor	-		3	Street
3	M.	15					-		and the same	*	3	
64	F.	15	D. 9, H. 12, Market Lane -		Indifferent	-	-	3rd Floor	-	Not crowded	1	
23	-	15 " .	D. 2, H. 12, Road to the Lines .		Court bad	*	Yes	2nd Floor	Clean		3	Both
151	M.	15 , .	D. 24, H. 3, Road to Flat Bastien		Indifferent		-	a Car	-	Crowded	2	Street
15	-		D. 15, H. 17, Bomb House Lane		-		Indicates.	u of a	-		9	Both
21	F.	16	D. 6, H. 14, Waterport Street -				-	-		"	2	Court
3)	M.	17	D. 3, H. 25, Turnabout Lane .			-	Yes	-		Not crowded	1	Street
00		16	D. 10, H. 11, College Lane -				-	, 3rd Floor		20	2	
18		17	D. 14, H. 32, Fraser Ramp -		Bad	**		Ground Floor	Not clean	Crowded	- 1	elita egreen
00	F.	18	D. 24, H. 44, Prince Edward's Rd.		Indifferent		-	THE PERSON NAMED IN	1000	MED .	1	- 10
00		18	D. 17, H. 2, Church Lano -		10		-	3rd Floor	Clean	Not crowded	2	
35	М.	29	D. 9, H. 3, Commercial Square -		Properly		-	Ground Floor	Not clean		1	Court
55	F.	22	D. 27, H. 5, Willis's Road -	10.41	Indifferent		-			.,	1	
15	M.	24	D. 26, H. 26, Willis's Road -				-	2nd Floor	Clean		2	.,

C .- South

	I											
-		-		10.4				YORKSON !		guer reies	the same	
Yrs 44	M	. 5 September	D. 3, H. 23, New Mole Parade -	Court undrained.	Bad	Court bad	None	Ground Floor	Not clean	Crowded	One	Into street
27	F	. 5 "	D. 5, H. 23, New Mole Parade -	Court drained,			,,	1st Floor		Not crowded		-
									-		4	-
36		8	D. 3, H. 13, Cumberland Rend -	Court undrained,		10	"The privy."			Crowded	-	Into court
		1				alt l	-	minute in	Second 1	Dell mell	etcostil .	-
1		-	the state of the s			190	constant of	T mace	- 6	ion to		date non-men

of Gibraltar where Deaths from Cholera occurred during the Epidemic of 1865—continued.

Gibraltar—continued.

		-	Water Suppl	y.	Les bayers		4	House I	Prainage.			the second second second
Doors: whether spening into a "Common Stair," or into the "Outer Air."	Whence derived.	Quality at the Time of Attack: "Good," "Clear," "Muddy," "Tasted badly," &c.	Quantity: "Sufficient," or "In- sufficient."	How obtained: "Drawn from Tank," or "From "Carried," "Carried," "Drawn from Pipe, "&c.	Situation of Water Tank: "Under Room," or "House," "Under Court," &c.	any House Drains :	Whether any open Gulley or Sink in the Street or Court close to the House attacked: "Yes," or "No."	or Sink at the Time the Patient was attacked: or whether any Drain	Privy Accommo-	How Privy is supplied with Water; "By Pipe," "By Hand," "Not supplied."	Whether Nuisance or Smell arose from Privy at Time of Attack: "Yes," or "No."	REMARKS.
Court Common stairs	Ragged Staff North Front	Good *	Insufficient	Carried	-	Yes "	Yes -	Yes -	Open sink	Not supplied.	Yes No	
Court	Ragged Staff						Yes	Yes	privy. Open sink		Yes	A DESCRIPTION OF
Common stairs	Tank		-	Drawn	Under court		_	_	Common	10	No	
Court			Sufficient				_		privy.			
Common stairs	North Front	Badly	Insufficient	" Carried				_	Open sink		Yes	_
	Ranged Staff				200		-	-	Common privy.			_
100	Tank	Good	Sufficient	Drawn	Under yard		_	_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	No	_
Court		22	Insufficient		Under house		Yes	Yes	Open sink	-	Yes	_
lommon stairs	North Front	-		Carried	-		-	-		-	-	_
	Tank	10		Drawn	Under house		Yes	Yes		-		This house is in bad sanitar
Court	Ragged Staff	Badly		Carried	-		10					
common stairs	Tank	Good	Sufficient	Drawn	Under court		-	_	Common		1	- E
Court			Insufficient	A STATE OF			Vos	Vos	privy.			2 4 4 4 4 4
			Sufficient				Yes	Yes			000	
common stairs	Ragged Staff		Insufficient	100 May 1	_				Open sink		Carried S	_
			10		-							_
	Tank	-		Drawn	Court		-	_	**			
Court					Under house		Yes	Yes	-		-	_
ommpn stairs	North Front	Bad		Carried	-	No	-	-	None	-	-	-
70	Ragged Staff	Good		-	-	Yes	-	-	Open sink	Not supplied.	Yes	-
	Tank		Sufficient	Drawn	Under court		-	-	Common privy.	supplied.	-	_
	-		Insufficient	**	-		Yes	Yes	Open sink			About 50 persons and on one privy. Court in ba
			Sufficient	.10	Under house				Common privy.	-		sanitary condition.
Street	Ragged Staff		Insufficient	Carried	-			-		-	-	_
	Tunk			Drawn	Under court		Yes	Yes	-		-	-
ommon stairs	*				Under house		-	-		-	-	-
Court	Commercial Square Fountain,			Carried	-		Yes	-	-	-		-
Sement.	Tank		- A	Drawn	Under house	No	-	-	Open sink	-		_
ommon stairs	Ragged Staff			Carried	-	Yes		2000		-		_

#### Districts.

Outer air Common stair	From Well	Tasted builty	Insufficient	Drawn from well	None =	No	No Open sink in court	None Smell from sink	Open sink	Not supplied	Yes	The whole of the "privies,"  "sinks," and "drains," on this property ("commonly called "Syders Yard") are in a very had state. The medical gentlemen during the time of the epidemic frequently com- plained of the generally bad sanitary state of this property. There are three privies for the accommo- dation of 150 persons.
Outer air	From tank	Muddy		Drawn from tank	Under house		No	None	•			In the room where the person was attacked "10 grown persons slept." "One privy for 52 persons," The privy has very bad drainage, and consequently frequently gets choked up.

Table XII .- Statistical Return showing the Sanitary Condition of Dwellings of the Civil Populatio

C.-Sout

Patal	Case	es of Cholera.		description				Pro-	State		1	Windows.
-	)				State	State	State	State in which Floor	whether	State		
			man man	State	whether	general	any	of the	the Walls,	whether, at		State
		1	Number of District (D.)	whether	the	Sanitary Condition	Nuisances		Floors of	of Attack,	State	
		Theta	and	or Court	Surface was	of Street	were	Patient was	the House	the Inmates	State	whethe
		Date	Number or	Was	" Properly	or Court:	com-	attacked:	were	of the Rooms	No.	the Wind
Age.	Sex.	of	Designation of House (H.)	" Drained"	paved,"	"Good,"	plained of	"Basement,"	"Clean,"	were	in	open in
		Death.		or "Un-	or " In-	"In-	at or	"Ground Floor,"	- In-	"Crowded,"	affected	a "Stree
			where attacked.	drained."	different,"	different,"	before the		different,"	"Not	Room.	"Court
			TAY THE RESERVE THE PARTY OF TH	100100	or "Bad."	or Bad."	Time of	"1st Floor,"	or " Not	crowded," &c.	mooni.	
			Test man	1 1111	Tane.		Attack.	"2nd Floor," &c.	clean."			or "both
Yrs. 65	M.	1865, 9 September	D. 3, H. 23, New Mole Parade -	Court	Bad	Court had	None	Ground floor	Not clean	Not crowded	One	Into co
		o especiment	27.07.21.20.21.01	undrained.						500	Carried Co.	2010 0
41		9	D. 5, H. 5, Centre Pavil. Road -	Court drained.	10		-	1st Floor	Clean		10	Into str
				0 -			hoos and	Diswall Co.			nes T	-
2	-	-	D. 3, H. 35, Danino's Yard .	Court			Yes	Ground floor	Not clean	Crowded	Vone	V
13	P.	10	D. 3, H. 35, Damino's Yard .	undrained.	"		sinks, privy,	Ground moor	Not cican	Crowded	None	Non
17		13				1	drains.				One	Into co
								or mark				
10	**	29			"		30			W		1,00
	1				1					"	77 17	E STREET
				1 7				0000000		1000	ANYOTE	orthology man
		Name of the last		407	194		mired and	ACI DESCRIPTION	14.		PACE !	- 14
7	-	11	D. 5, H. 5, Centre Pavil Road -	Court drained.			None	1st Floor	Clean	Not crowded		Intos
90	М.	13 "	D. 6, H. 8, Naval Hospital Road	Court undrained,	Indifferent	Indifferent	mark of	off hematic	200	sain +	Two	Into l
14		13 _	D. 3, H. 18, Cumberland Road -	Court	Properly	-	-	2nd Floor			One	Into e
				drained.	paved.	Good			named	-	-	1000
3	F.	10 ,	D. 3, H. 14, Cumberland Road -	-			-		100			Intos
2	-	21 "	D. 6, H. 10, Naval Hospital Road	0	Indifferent	Bad	*-	Lotter Lin	Indifferent		**	Into
12	M.	26	D. 3, H. 23, New Mole Parade -	Court undrained.	Bad	-	Ashpit and sink,	Ground floor	Not clean	Crowded	-	
8	F.	27	D. 4, H. 5, Road to Windmill Hill	Court drained,	Indifferent	-	None	2nd floor		Not crowded	Two	
2		30	D. 3, H. 16, Cumberland Road -		Properly	Good		Ground floor			One	1
	*	31	Landau Comment		pared.	-	-			77		14"
						-	Dinion Turn	U7 EFFELT V	estation.	- 3	THE P	
ń	M.	30	D. 1, H. 7, South Sheds	Court	Bad	Indifferent	-	2nd Floor	Clean	.,	Two	Into st
75		All Parties in	D. 7, H. 9, Rosia Ramp	undrained.	Indifferent	Bad	Yes:	Ground Floor	Indifferent		One	No. of Street, or other Persons
3		1 October -	D. 7, H. 2, Rosm Ramp	Court drained.	indinerent	Dau	privy.	Ground Floor	Indiacreat	- 1	One	Into
4	F.	4	D. 5, H. 25, New Mole Parade -	Court undrained.	Bad	2	-	10000	Not clean	Crowded		10.5
13	м.	9	D. 1, H. 13, Rodger's Road .			2	Yes; goat yard.	2nd Floor	Sea .	70		
								TO DE			1	Service No.
1						1	-	- Maria		1 3		1000
2,1		13	D. 3, H. 2, Cumberland Lower	Court	Indifferent	Indifferent	No	Dinger U	Clean	Not crowded		Into s
	F.	13	Rond. D. 1, H. 6, South Sheds	drained. Court	Bad	197	-	Ground Floor	Not clean	- Tell		mbile pe
				undrained.								
9	м.	17	D. 1, H. 13, Rodger's Road -			Bad	Goat yard	2nd Floor	-	Crowded		Into e
0	F.	14 September	D. 1, H. 6, South Sheds			-3	No	20	-			Maise
4	М.	17	D. 6, H. 13, Naval Hospital Road						Indifferent	Not crowded	Two	Into st
6		21 October -	D. 1, H. 15, Guistos Row	Count	To different	Tradifforment	-			and the state of the	One	Into e
0	*	at october -	Z. I. II. IV. Outside Roll	Court drained.	Indifferent	anumerent					One	THEO
9	P.	27	D. 6, H. 16, Naval Hospital Hill	0	Properly	Good	-	Ground Floor	Clean	obey De	and I	Into st
10		10	D. 5, H. 5, Centre Pavil Road -		paved. Bad	Indifferent			Not clean			Into co
5	m :	13 "		100	200		-		The second	-		
1		4 -	Government Quarters, Naval			-		2nd Floor	Clean		Two	Into st

f Gibraltar where Deaths from Cholera occurred during the Epidemic of 1865-continued.

District.

90000			Water Suppl	y.				House I	Drainage.			
Doors: whether pening into a "Common tair," or into the Outer Air."	Whence derived:	Quality at the Time of Attack: "Good," "Clear," "Muddy," "Tasted badly," &c.	Quantity: "Sufficient," or "In- sufficient."	How obtained a "Drawn from Tank," or "From Well," "Carried," "Drawn from Pipe," &c.	Room," or "House," "Under	Million St.	Gulley or Sink in	such Gulley or Sink at the Time the Patient was attacked, or whether any Drain opened	Accommo-	How Privy is supplied with Water: "By" Pipe, "By Hand." "Not supplied."	Whether Nuisance or Smell arose from Privy at Time of Aitack: "Yes," or "No."	REMARKS.
Outer air	From well	Tasted badly	Insufficient	Drawn from well Carried from well	None	No	Open ashpit Open sink	Yes; from ashpit Yes; from sink	Open sink	Not supplied	Yes Control of the Co	Remarks have been stated above "on this property," D. 3. H. 23. ("Commonly called Syders Yard") None.
.,	From tank	Good	bear make	Carried from tank	Harris And	manuff or O "kilos			100	to had or	rolled 1 Jes I Pydio in disch ali Fash	The whole of the sinks, drains, and privies on this property ("commonly called Dannios Yard"), are in a very bad sanitary state, and like "Syders Yard" was frequently complained of by the medical gentlemen
-		-	Intrins.	ni golven	ut j	(aciros)		-		toudle	re fly str	medical gentlemen ("during the late epe- demic"). There is an open privy close to an open sink, from which a bad smell at all times arises, there were three fatal cases
	From well	Tasted badly	ento atten	Carried from well	m7 nolli	g's Bu	nicit .		- 25	issta Indelian	de particular	of "cholera" close to the said privy and sink, and which said privy and sink accommodates about 50 persons. None.
-	From tank	Good "	Sufficient	con paid	Under house		No "	None				None, None,
mmon stairs Outer air	From well	" Tasted	Insufficient	Carried from well	None None	KA so	ia l	No	Common privy Open sink	Not supplied	No "	None,  Bad drainage and privy ac- commodation.  Remarks have been stated
mmon stair	From tank	Good	Sufficient	Carried from tank	Under court			Smell from sink		pille unby	ry tarnel restrict of	above on this property D. 3. H. 23. (*Syders Yard *) None.
mmon stair	Purchased	PT CONT	bafra com-	Carried	None		None	None		By hand		The room where this person was attacked is small and not sufficiently ventilated ("it was built for a kitchen").
ato a court	From well	Tasted badly	Insufficient	Carried from well	en t	-	Open sink	Smell from	**	Not supplied		This property is in a bac sanitary state, owing to the bad drainage and privy accommodation, "Rosia." "Syders Yard," D. 3, H. 23,
mmon stair	From tank	Clear	rankund and minus handun	Carried from tank	Under court	ablV as	No.	None	-	Joels S	mine (g	On this property there are a quantity of goats kept from which a very bad smell arises, and which the medical gentlemen complained of; also there is one privy to accommo- date 60 persons.
" Duter air	Purchase		Sufficient Insufficient	Carried	None	nell areas	1 0 m		-	:		None. This property has no drain age; there is one cesspoo privy to accommodate 30 people, from which a bac smell at all times arises.
nmon stair Duter air	Purchase		1	Carried from tank Carried	Under court None	don't See	NO L			drawk h		Remarks have been stated above on this property D.1. H. 13. ("Scud Hill") Remarks have been stated above, on this property B.7. H. 6. ("South Sheds")
umon stair	From tank	Good "	Sufficient .	Potalb	Under house	Marken Serpert C	in court	Smell from sink			· harrel	This house is very old, and in a dilapidated state, Bad drainage, sink, and privy accommodation on the whole of this property D. 1. H. 15, (* Justo's Baildings.*)
Outer air	From well From tank	Tasted badly Good	" Insufficient Sufficient	and a south	None Under court	o ungit le	No. Open sink No.	None Smell from open sink None	Common privy Open privy	By hand		None. None.

Table XIII.—List of Sanitary Works completed in Barracks up to the Outbreak of Cholera in Gibraltar, about August 1865.

Name of Barrack or Hospital.	Service.	Remarks.	Name of Barrack or Hospital.	Service.	Remarks.
Jumpers Bastion Barracks	Lock up improved.  Wood floors laid.  Ventilating shafts put in.  Do. grates do.  Bath and ablution room improved.  Steel boilers and oven fixed.		Grand Casemates {	Ventilation to privies by heightening shafts - Wooden floors in 3 case- mates Grates put in 2 casemates Ventilating shafts and gratings in 16 out of 26 casemates	The whole of the Infantry were removed from here soon after the Cholera broke out, and encamped. The Barrack was then thoroughly cleaned and white-washed, it was not however re-occupied while sickness was prevalent.*
	Jenning's latrines and urinals and 6 night urinals fixed.		Town Range Bar- racks (R. E. Portion)	Jenning's latrines and urinals.  Ablution and bath rooms.  Tar paving to latrines.	
	Wards all ventilated except 4.  Consolidated kitchen fitted up.  Surgery and adjoining rooms.  Provision store and Orderlies dining room.		King's Bastion Barracks -	Ventilating shafts completed -  Ventilating grates completed -  Flooring completed -  1 ashbin -	This Barvack was also vacated, and the men encamped till the Choiera disappeared.
Navai Hospital	Adjacent privies altered to latrines.  Purveyors stores.  Adjacent privies altered to latrine's.  Water for privies laid on.		Prince Albert's Front -	Ventilating shafts completed.  Ventilating grates completed.  Floors.	Land See See
	All internal drainage done.  Jenning's latrines and urinals put up.  Ablution and bath room fitted up.		Orange Bastion - {	Ventilating shafts completed	The Cholera was very bad here, the men were eventually en- camped till it was safe to return.
Hargraves Bar- racks	1 night urinal fixed.  Tar paving laid in Bar- rack square.		Buena Vista -{	Pipes to soldiers latrines. Do. to officers latrine for flushing.	
	Guard and school rooms ventilated.		Gunners Barracks	Drain.	
R. E. Mess and Quarters	Improvements to water- closets.  1 night urinal fixed.  Drain improved.		Stanley's Buildings Officers' Stables, Southport Street  Windmill Hill Barrack -	Privies and ventilation.  Ventilation, &c.  Urinal.	
Engineer Buildings Prince Edward's ramp	Drain and water-closet.		Windmill Hill Canteen -} Waterport Guard Room}	Do.  Ventilated with grate and shaft.	

<sup>\*</sup> The battery of Royal Artillery quartered there remained in occupation.

TABLE XIV.—Showing the Sanitary Condition of Affected Quarters, together with Cases and Deaths from Diarrhea and Cholera among the Troops at Gibraltar, during the Epidemic of 1865.

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TABLE XIV .- SHOWING the SANITARY CONDITION of AFFECTED QUARTERS, together with Cases and

Occupation when the Epi	demic appeared.			Diarr	rbea.	Chol	era,	Floor	Vanakan et
Barracks,	Corps.	Name of Patient.	Age.	Date of Attack.	Date of Death.	Date of Attack.	Date of Death.	where Attacked: "Ground," "1st Floor," or "2nd Floor."	Number of Room where attacked
Moorish Castle	1st Brigade. Royal Artillery -	R. Lawrence	25	1865. 15 July -	-	1865.	1865.	1st Floor	4
		J. Chandler	33	12 August -	-	-	-	Ground	37
Orange Bastion		R. Bell	26	21 ,,	-	-	-	-	1
Moorish Castle		J. Rowbottom	24	-	-	24 August -	-	1st Floor	3
		J. McIntyre · ·	28	28 August -	-	-	-	30	4
Orange Bastion		B. Riding · ·	30	29 ,,	-	2	-	Ground	3
Grand Casemates		G. Wiggins · ·	28	2 September	-	-	-	1st Floor	24
Rosia Barracks		L. Waddington .	27	2	-	-	-		1
		T. White · ·	29	3	-	-		**	1
Moorish Castle		J. Cousins	30	3	-	-	-		1
Grand Casemates		P. Sproult · ·	30	3	-	-	-		26
		D. Stewart · ·	30	3		-	-	39	26
		J. McCartney	27	5	-	-	-	10	24
Moorish Castle		H. Pellow	28	8 .,	-	-	-		2
		H. Pricker	26	10	-	-	-		2
		J. Buttler	34	-	-	10 September	12September	Ground	33
Prince Albert's Front		R. Roles	24	-	_	11 .	12 "	10	4
Rosia Barracks		H. Burnett -	29	-	_	11 .		1st Floor	1
Grand Casemates		J. Larmer	27	11 September	_	_	_		24
prost) Aller o	oriente donaline	W. Wood	30	name of	0.000	ate -	- TI	Z mena'l	24
Brewery Barracks		G. Morrison	24	11	MALIGACE.	DIM HOLIN	- V	Ground	1
Moorish Castle	AL GDRAMMA	J. Meehan · ·	32	Choung b	de America	13 September	14 September	1st Floor	2
Orange Bastion		B. Riding	30	13 September	_	.0880	To creme	Ground	3
Jumpers Bastion		H. Cause · ·	31	14 _	_	_	-		6
Rosia Barracks		J. Morgan · ·	29	-		13 September	14September	1st Floor	1
Gunner's Barracks		C. McCabe · ·	26	14 September		_	-	Ground	Dispensary
Orange Bastion • •		J. Deraney	29	Trooperatori		15 Sentember	16September	1000	2 S
n d new he		C. Head	28	16 September		10 September	100cpremier	1st Floor	1
Gunner's Barracks		D. Hubbard · ·	26	16				2nd Floor	
Prince Albert's Front		J. Grocett · ·	24	30				Ground	2
		J. Moorse	30	10 ,,		18 September		100000000	
			28		_	100	25 September		1
Orange Bastion Grand Casemates			26				агосрасшист	1st Floor	*
			0.00	10 Cantambas		19	-		26
Moorish Castle		R. Smith	29	19 September			-	Count	1
Defensible Barracks		J. Driver	25	19			-	Ground	3
Moorish Castle		J. Bullett	35	19 .,		3			1
		J. Payne	28	19	-	5-		"	2
		C. Coates	28	19			-	10	1
Orange Bastion		H. White	25	19		418-4	and Stanton beauty	10	1
		J. T. Ruddom	24	-		The state of the state of	23 September	-	4
		E. Mathews - ·	26	-	_	22 "	23 .		4
		J. Sutherland	36		-	22	23	20	3
Prince Albert's Pront -		J. Heasley · ·	26	24 September	-	-	. 7	"	1
Orange Bastion		A. G. Carter · ·	20	24	-	-	-		4
Prince Albert's Pront		T. Mullin	27	24	-	-	-		3
Moorish Castle · ·		J. Chandler	33	-	-	24September	24 September	*	37
Jumpers Bastion		J. Harding	30	24 September	-	-	-		3
Moorish Castle		H. Fricker	26	25	-	-	-		2
Grand Casemates		P. Lyons	34	25	-	-	-	1st Floor	24
Prince Albert's Front		C. Armstrong	25	25	-	-	-	Ground	3
Orange Bastion		R. Bell · ·	26	25	-	-	-		1
Moorish Castle		J. Buxton	28	26 .,	-	-	-	19	38
Medication control									The second second
,		J. Connolly	85	26	-	-	-		19
	: :	J. Connelly G. Bullock	35	26	_	_	_	1st Floor	29

Deaths from Diarrhoea and Cholera among the Troops at Gibraltar, during the Epidemic of 1865.

Cubic	State of	Any N	vuisance Time	experien of Attacl	ced at the	Water Suppl	y at the Time	of Attack.	How long	General Sanitary	
Feet per Man in Room at the	Ventilation : "Sufficient,"	From	From	From Filthy	From other	This I de la	Quantity: "Sufficient,"	Quality: "Good,"	the Attack had the affected	Condition of Neighbour- hood of	REMARKS.
Time of Attack.	"Insufficient."	"Drains" or "Gul- leys."	"La- trines."	Neigh- bour- hood."	Sources.	Whence derived.	"Sufficient," or "Insufficient."	"Clear," "Muddy," "Tasted badly."	Room been Limewashed.	Barrack : "Good," "Indifferent," "Bad."	
410	Insufficient	Yes	No	No	None	Contractor -	Insufficient	Tasted badly	1865. 1 April -	Bad	- Indiana de Cara de C
226-8	- Simo						tr .	purgrand?			· Ellent mount
881		No			Breakwater		10	Political .	W		
405		Yes			None	1	= -	· that			·
405	Jenno	(1)				12	10 -	- streeted.	-,	- "	Travels Covins
881		No		and goods	Breakwater		60	- systematic		- 10	· Wipeli lenti
629		-		n	Water Port	Tank	8 9	· portug			Private Alberta Propt
1150	Sufficient		Yes	,,	None	Well		Court)		- Good -	Thornton Contracts
1150		10					755	· pinvoli		- "	· Lives O Jess D
405	Insufficient	Yes	No			Contractor -	45	. Total		- Bad	
620		No			Water Port		ъ.	. "000			mulded
671			**	10	10		н.			" "	· Inchiant Alberta
671			20	10		rod anageit or	e .				Thereing Day
423		Yes	-		None	and the second	-	and and			The state of the s
423	-			-		-41803801		The second			The second second
315	10			- moleche							
549 1198	- Dipor	No	" "		Breakwater	Water a series of the				C. d	-
671			Yes	10	None	Well		- Constant		Good	
671	"		No	-		Tank		Santary.		Bad	
1198	Sufficient			**				- solvet		Good	the state of the same
423	Insufficient	Yes	- :	+ modate	050	Contractor -		Moseur		Bad	
917	Amount	No			Breakwater	- a Outober -	m .	Dula			toril - toril
1160				-		Tank and Well -	m .	statif			Dutchmall
1198	Florer	et .	Yes	- undate	None -	Well	12	buW.		Good -	· · ·
1160			No	Yes	0.0	Tank	es .	Monte		Bad -	
917	, leaves			No	Breakwater	Contractor -	12 .	- Zonganos .			Promision of Promise
1198	Sufficient	22	Yes		Nome -	Well	W .	* 150m0		Good	
500	Insufficient		No	Yes	, -	Tank	10 10	- good		Bad	* E-schleuth
540	· James	-		No	Breakwater	Contractor -	4	Jewanik			· amelianat
423		Yes	00.0	100	None		11 2	- W0007			· · —post tend
917		No	-		Breakwater	g tolk HOT.	= -	- pisted		- "	· amountained
631		**			Water Port	Tank	22 10	· olester			-
423	10	Yes	10		None -	Contractor .	100	in with			
785		No				Tank	10	hardyst.		Good	- · - District
423	- "	Yes	-	"	-	Contractor -	= 4	Mente		Bad -	
423							10 10 -	- words			James Herry
423	"							Hoow of hi			Prince Alberta Press
917	"	No	-	*	Brenkwater			newstat.			- I Donald
917	"	39	-					· mostal.			Prince Chamber
917	" -	"	-		**			P		-	- Language Statement
549				**	"	-		-			
917	Under Same	"	-								Account to the same of
549	TOOL T		- :					-			
226-8	Austra	Yes		-	None -	100	10	-			1000-00
906		No	HOSE	- mododo	Breakwater	Tank and Well -		2000			
423		Yes	-		None	Contractor -	38 30	no (Scorett)			-
671	Floor .	No			Water Port	Tank	13 40	- eggs)			
549	James	10			Breakwater	Contractor -	100	- mar			- storm others
917	T-OFE S		-			radianvol/ B	ee .	- Avison			- The state of the state of
378	Liteon	Yes	-		None			Newson .	- w		- student different
483		-					B	DOWNER			- std proper
671	and the same	No .	mb Tax		Water Port	Tank					-
671	10		-					-			tem III
						K	2				

Table XIV .- Showing the Sanitary Condition of Affected Quarters, together with Cases and Deat

	he Epi	idemic appeared.			Diarr	hes.	Chol	lera,	Floor where	Number
Barracks.		Corps.	Name of Patient,	Age.	Date of Attack.	Date of Death.	Date of Attack.	Date of Death.	Attacked; "Ground," "1st Floor," or "2ndFloor,"	Room where attack
Prince Albert's Front .		1st Brigade. Royal Artillery	J. Day	25	26 September	_	1865.	1865.	Ground	1
Naval Hospital •		A	J. J. May	26	27	-	-	-	Hospital	_
Jumpers Bastion .		CARL CO.	G. Thompson	27	27	-	_	_	Orderly. Ground	4
			W. Saunders	27	27	_		1		1
Grand Casemates -			W. Hall - :	32	27	-	_		1st Floor	25
Moorish Castle			M. Dogherty	28	27	-	_	_	Ground	9
Naval Hospital •			J. Fletcher	30		_	29 September	29 September	100000000000000000000000000000000000000	21
Prince Albert's Front -			G. Culver · · ·	23	27 September		_	_	Ground	3
Moorish Castle			M. Grace · · ·	28	00	_	-		1	2
Grand Casemates -		Anoth .	A. Lowrie · · ·	25	20	_		-	1st Floor	25
			G. Cooper	100				13 1		
Rosia Barracks			J. Casey	25	90			10 10	"	1
Prince Albert's Front -			J. Sleith	27	30 "		30 September	1 October -	Ground	
				25	20 8		ovocpicii oci	1 October 1	1	3
Moorish Castle - •			C. Rose E. Pritchard	30	30 September			10.00	"	7
Prince Albert's Front .				33	30 "	-				
Moorish Castle • •			J. Rowbottom	24	1 October -	-	-		1st Floor	2
Rosia Barracks - •			J. Brien	22	1 "	-		1	18t F1000	1
			J. Heaton	28	-	-	1 October -			1
Moorish Castle		DOM:	J. Honeker	27	1 October -	10W - 100		417	Ground	2
Prince Albert's Front -		full - 8	J. Morgan · ·	33	3	and -	-	W.	-	7
			E. Talbott	33	3		-	- 7		-
Defensible Barracks -		bed	J. Taylor	26	3 "	-	-	-	Married N	3
Grand Casemates •	-	100	R. Mooney	23	month	mo = _	3 October -	14 7 16	1st Floor	men! 25
Prince Albert's Front .			E. Doyle	27	3 October -	Titout	mit		Ground	4
Moorish Castle			C. Blake	31	4 .	- m	-			1
Rosia Barracks		fool)	J. Ward	24	-	GW - unit	3 October -	10X	1st Floor	1
Naval Hospital		IMIT A P	J. Moore · · ·	28	-	-	4 October -	18.7		18
Pr nce Albert's Front -			H. Johnston	28	4 October -	m	m - m	-	Ground	5
		head)	J. Grocett	26	4	-	-	107 T		2
Grand Casemates •		tott	P. Lyons	34	4	-	-	-	1st Floor	24
Jumpers Bastion -			B. Shamond	25	5	and where	and I was	-	Ground	1
Naval Hospital • •			C. Connor	27	-	-	6 October -	6 October -	1st Floor	20
Jumpers Bastion •	-		J. Corble	32	7 October -	-	-		Ground	3
			J. Westlake	33	7	-	W -	-		2
	-		T. Peacock	26	8	-	-	_		4
Moorish Castle	-		W. Hickland	37	-	-	6 October -			23
		HII	T. Moore	30	9 October -	-	-	-		42
Jumpers Bastion .	-		H. Edgar	24	9	-	-	-		2
Prince Albert's Front -			J. M'Dermott	25	9 .	_	-	-		6
Moorish Castle - •	-		J. Johnston	28	9 .	7		-		2
Prince Albert's Front .	-		G. Price	27	10	-	-	-	,,	4
Defensible Barracks -			J. Lawlor	27	12		-	-		4
Moorish Castle				30	15	_	-	_		43
Brewery Barracks -				24	17	-	-			2
Under Canvas at Europa			W. White	27	17	-	-		Under	Canvas.
Grand Casemates •				34	17	_	_	_	1st Floor	24
Prince Albert's Front -			R. Fraser	27	20 .	-	_		Ground	4
Moorish Castle			T 10.11	25	-	-	24 October -	24 October -		8
Jumpers Bastion -			W. Chantler	26	25 October -		-	-		2
Moorish Castle			0.0	24			-	_	1st Floor	4
Defensible Barracks -			0.0		26	Co. Total		_	Ground	3
Rosin Barracks			m n.a.	24		SECTION AND PROPERTY.	net con		1st Floor	1
	100		T. Endy	26	2 November	1 1	(1)	741	2 1000	TO SAIN
Defensible Barracks -		7.10 20 2	W. Newman	25	3	CONTRACT		_	Ground	3

This does not include a very large number of cases of

from Diarrhæa and Cholera among the Troops at Gibraltar, during the Epidemic of 1865-continued.

Cubic Feet per	State of	Any :	Nuisance Time	of Attac	seed at the k.	Water Suppl	y at the Time	of Attack.	How long before	General Sanitary Condition	di ande milaposo
Man in Room at the Time of	Ventilation; "Sufficient," "Insufficient."	From "Drains," or "Gulleys."	From "La-trines."	From "Filthy Neigh- bour- hood,"	From other Sources.	Whence derived.	Quantity: "Sufficient," or "Insufficient,"	Quality: "Good," "Clear," "Muddy," "Tasted badly."	the Attack had the affected Room been Limewashed.	of Neighbour- hood of Barruck: "Good," "Indifferent," "Bad."	REMARKS.
519	Insufficient	No	No	No	Breakwater	Contractor -	Insufficient	Tasted badly	1865. 1 April -	Bad	· · · · · · · · · · · · · · · · · · ·
1715	Sufficient		BT.		None	Tank		and the same of		Good	
906	Insufficient			Yes		Tank and Well -	-	Polymon Carriers		Bad	"
906		in Man	anh gr	No	Breakwater			and the same of			
671	Visor	"			Water Port	Tank		value W man			
423	"pursus	Yes	"		Nome	Contractor -					_
1715	Sufficient	No	"		-	Tank		may unitity		Good	-
549	Insufficient	* -			Breakwater	Contractor -		mineral memory		Bad	
423		Yes	"		None						
671	· outro	No	"		Water Port	Tank					The state of the s
1100	Co-Mariana		"								- statute
1198	Sufficient	in .	Yes	H	None	Well					Internal - Continue
549 423	Insufficient		No	"	Breakwater	Contractor -	-				
549		Yes		10	None						
429		No V		-	Brenkwater			,,			- mirania
1199	Sufficient	Yes	Yes	10	None	W-0	19				
1199		No	1000	10		Well				Good	
429	Insufficient	Yes	No No	19		Contractor					
549		No		**	Danilander.	Contractor -		**		Bad	
_				"	Brenkwater						
789		-		"	Want.		10				THE REAL PROPERTY.
675		- Transferred	20	"	None Water Post	Tank -		-		Good	THE STREET STREET
549		" -			Water Port Breakwater					Bad	- MARY - MAY AREA
429		Yes				Contractor -	-				
1199	Sufficient	No	Yes	10	None	W-11	-	"			TO THE REAL PROPERTY.
1210			No	**		Well				Good	The state of the s
519	Insufficient		7.1	"	Breakwater	Tank	-	"			to the same of the
549						100				Bad	
675				10	Water Port	Tank					
908			-	nie glor	Breakwater	Tank and Well -				-	1000
1259	Sufficient				None	Tank	"				
908	Insufficient			"	Breakwater	Tank and Well -		Image of a fac		Good	
908	2000			la constant			-	and the same of		Bad	
908						- designated					-
76216		Yes		Tire or	None	Contractor -		to the same of			Andrew Committee
288				10	,,	Talanda A.		**		- 1	The state of the state of
208		No			Breakwater	Tank and Well -		Self min		-	- INTERNATION
549						Contractor -		- Chief Council			Access to the second se
420		Yes	,,		None			manti amil			
549		No		**	Breakwater			mogli mis		-	Appendix on resulting
789					None	Tank		month inner		Good	- HELLIGHTON MAN
288		Yes	OIL IN	THE STATE OF		Contractor -		her amon	1	Bad	bratt shalls
867		No				Tank		dispetit soland		Good	
			20	19	19		11 -	migrations.		100	County Sandard State
675	melico		,,	10	Water Port			Salvell manual	1	Bad -	- Almost die
549	Agents	10			Breakwater	Contractor -	44	positive T. Issueral			
303:75		Yes			None			manufamus			- Love Townson
108	-	No	.,			Tank and Well -	2 1.7	mirit grand			
429		Yes				Contractor .	#	Samuel Street			
789		No		19		Tank		positivit symm		Good	
	Sufficient	- ando	Yes	11000190	0	Well		mouti bravelo	-	COM	Local monature
1120	to the state of the										
1190 786	Insufficient	11	No.			Tank		Sames Craula			

Diarrhoen in which Hospital treatment was not required.

Table XIV .- Showing the Sanitary Condition of Affected Quarters, together with Cases and Deaths

Occupation when th	e Ep			v.—Snowing				rhœa.	ods 4		olera.		
			The Lot	shatta.		all say	Man and and			Amate 30	over an	Floor where	Number o
		Mily S		Name of Pati	ent.	Age.	Date	71	nte	D. W. W.		Attacked:	Room
Barracks.		(	torps.	THE REAL PROPERTY.		1280	Date of Attack.		eath.	of Attack.	Date	"1st Floor,"	where
		Ladiol		College Books		I man I'	of Attacs.	OI L	PORKEL.	Of Actack,	of Death.	"2nd Floor."	Attacked
	1				1	1	1865.			1865.	1865.		
North Front	-	2nd Bat	t. 15th Regt.	William White	100	31	-	CONT.	Steroit	3 August -	4 August -	Ground	mil - 0
Casemate		Garl)		William Allicot	1	35		marin :	10000	10	10	1st Floor	16
		Int		William Careless		23	Here Less S	etT.	-	10		Ground	10 80
		-		Thomas Patterso	m -	21	- "	1	to law, fa	10	12 August -		9
				George Wookey		23		CHIX :	Dark to	10		1st Floor	16
		-	- "	Charles Cox		23	- Tobasi	MO .	- 400%	10	4 - 15	Ground	10
	-	bankii	-	William Fan		25	13	-	- "	10	- 67	400	4
		Indi.		William Smith		27	· Tohas	soo :	- days	10		100	mail 2 %
		4		Amos Hanington		23	11 August -		nunig	=	H 7 10	1st Floor	20
Naval Hospital		**	M	Thomas Stone		25	.16 .a. ·	-F	PHI TO	10 II	4 7 62	Ground	12
Casemate -			w nut The st	Walter Tuck		27	- "		-	18 August -	19 August -	1st Floor.	11
Fransport Ship." Renown"		10000000	9th Regt.	John Doyle -	-	40		O.M.	Ho?	22	22	-smisi	10.11 - All
King's Bastion		2nd Bat	t. 15th Regt.	Richard Mercer	. 1	24	.27 August -	10	To I I I I I I I	outil To	00-	Ground	16
** ***		100	24 11	George Hornby		81	an Amend		no.sk	29 August -	30 August -	* "	15
Wellington Front -				William Brooks	7	24	30 August -		Diswife	mil -	4 7 08	- "	28
King's Bastion				James Leeman		33	4 September		ena Z	100-1-1-1	" 7 m3		2
				Thomas Ward		37		H	. 1	10 September	11 September	Name and	15
Insemate				Patrick Sullivan William Tomlins		33			14	12	100		9
Ling's Bastion				William Cronsdal		34	popular	10.10	H	10	12September		12 0
Vellington Front			-	Edward Burbeck		32			- Contract		13 . 07	n 11	5
				James Joseph		25	- 1		, "	14	" ] "	10 11	28 ***
amp, Windmill Hill -				Giles Warren		24	-		0000		16 September		26 Touris
amp, wasan zen				Samuel Griffiths		30				14	Tito Chermon		Tents
Vellington Front -				John Allen		26	16 September			10			4 8
amp, Windmill Hill -		*		George Lampard		28	18		3000	_	ev I		Tents
Vaval Hospital -				Laurence Aspden		33			- "	19 September	21 September	1st Floor.	23
Wellington Front .				Mathew Donnelly		28	19 September		-	- D	_	Ground	26
lown Range				Jacob Quinn		24	20		_	-	1		10
Sarrison Dispensary -	-			George Foster		30	20	-	-17 -1	W	1		-31
Vellington Front -				Richard Brackell		31	list tone d	mi.	- arrefer	22 September	22 September		23
own Range				William Purcell		18	22 September	er -	- 107	-	-	1st Floor	
				John Hammond		26	23		Seede	nt =	"	Parist.	6
Vellington Front -				George Brixton		26			-	23 September	23 September	Ground	24
own Range	2			John Sheppard		30	24 September		-	-	. + .	10 H	2
Vellington Front -	-			William Rowland		25	Taluest	10	n number	26 September	1 October -		16
iarrison Dispensary -			,	George Foster		30	27 September	-		-			-8
amp, Windmill Hill .	-			John Hill -		25	27 10 W 4 10 10	WT :	tow for	all -	- + 62		Tents
Vellington Front -				Thomas Criddle	-	26	27	0	- "	-	- + -		8
own Range				George Chance		24	28	-	- 00025	-	107		2
Vellington Front -				John Mason .		22	25		Sevin	MI TO	+ + 000		8
amp, Windmill Hill -				Samuel Moore		37	28	-	- 5,007	-	7 7 -		Tents
Veilington Front -				Thomas West	. 4	33	Toltaste	(30	- 1	1 October -	3 October -	n =	25
aval Hospital				Charles Slough		23	1 October -	1	70 00	7	" 1 000		12
Tellington Front				James Cronin		27	1		7.	7	" T "	2 1	7
outh Barracks - · ·			n	Thomas Morley	-	29	4	1	W. Ted	77	" T -	1st Floor	10
own Range			.00	Samuel Jackson	•	24	6 11	100	- AWAR	and the same of	- T	Ground	1
Fellington Front			·10	James Leever		25	6 "		- many	1000			21
10				Henry Price - George Tanner		23	6				T T		21
lown Range				George Mathews		25		1	-	-	4 1 2	. "	9
Yellington Front		000)		Edward Dunn		30				6 October -	7 October -	100	1 *1
Naval Hospital				James Cronin		27			"		lox -	1st Floor	21
Wellington Front -				James Shackleto		23	7 October -		- "	-		Ground	21
Pown Range	0	**		Samuel Smith		24	9 m		-	_		Ground	1
Comp, Windmill Hill .		0 000		John Hill -		25	9	1	Jes	depression on	Amustanid Let	iguill shifts	Tents
		100	THE RESERVE AND ADDRESS.	The second second									The Person of the Person of

rom Diarrhox and Cholera among the Troops at Gibraltar, during the Epidemic of 1865-continued.

Cubic	State of	Any 2	Suisance Time	experies of Attac	nced at the	.md	Water Suppl	y at the Time	of Attack.	How long	General Sanitary	Competing when the I
Feet per Man n Room at the Time of Attack.	Ventilation: "Sufficient," "Insufficient,"	From "Drains," or "Gulleys."	From "La- trines."	From Filthy Neigh-		Whe	nce derived.	Quantity: "Sufficient" or "Insufficient."	Quality: "Good," "Clear," "Muddy." "Tasted badly."	before the Attack had the affected Room been Limewashed	Condition of Neighbour- hood of Barrack:	REMARKS.
383	Insufficient	None	Nome	Yes	Cemetery	Tank	April .	Sufficient	Depositing	4 months -	Indifferent	- 155 - 155
450		m.		No	No			Limited	sediment.	3		Edward Same Vanco In
405	-	-				.,	- north fr		Manuali	3		-
490	* home	0 -	"					82 44	- amobum)	3		terrota II allegament an
495	10.00	-					. 0		+ cimbolacti	3		returned interests on
498		-	_ #		10	10			- Waterill	3		-
490	* 500	0 -	_ n					12 4 .	- matterio	3		na Your Dance Berrarks
380	PhotE	int -	_ "				. 0	B	- umdent	3		strengt several as
498	* /1000	0 -				-		10 *-	+ 07#10ps81	3		pt. Huma Vieta Hattaces
2490	Sufficient	No	No	- 20.00	Unknown			Sufficient	- Malanti	4	Good	Attending on cases of cholera,
408	Insufficient	W -	- "				indantiquil.	Limited	- Manager	3	Indifferent	4 40
- 01	Unknown	-	- "	-	" -	10	3 5	III *-	<ul> <li>Depletitie</li> </ul>	Unknown -		
490	Insufficient	Yes	Yes			"		E 10 .	* Manual W	6 months -	Indifferent	
498		"	_ "		"	10		E 7-	- smodelno	6		Mosthery and of Wall
498		79	No	"-	" -	"	and the	0.71	+ totalero.E	5		Northern end of Welling- ton Front.
495	*malk	-	Yes	"-			11 11	T .	- " (1916)	6		17. Magnista Baryoks
498 390	hoose . hoose	No	No No		No		p 0	9 1	- 101	6		O federal field appetled O
490		Yes	Yes	ted make	-	"		-	- AMANGANO	0		na Mark Medices The Cale
498	"smill	1				"	nodan kesik ti	W 1	montenated	6	-	the Magazin Bernin
498		**	No					4 1				Northern end of Welling-
490						"	JH 57	= -	Dunelina		"	ton Front.
180	Good	No				"	0 11		- America	Never .	Good	rintali avastell 32
180			- "									Gr. Comp. May Cottlage
498	Insufficient	Yes	100.00	out make					Howalant.	5 months -	Indifferent	St. Barrette Jarrette
180	Good	No							M and 7	Never -	Good	mount morney I am 218
1450	Sufficient							Sufficient		5 months -		Attending in cases of
498	Insufficient	Yes						Limited	· meCould	5	Indifferent	cholera
498		-	Yes	Yes					nfaT	6	Bad	
1440	Good	No	_No						Dennistra	4		nd or the state of the state of
498	Insufficient	Yes		No			. 15		- wellast	6	Indifferent	Northern end of Welling-
498	Page 1	I miles	Yes	Yes	ST			H 40.	· valuati	6	Bad	ton Front.
498					= -				Heatherine.	6		-
490		-	_No	No_			nderthed to	10. 0.	- 02:00	6	Indifferent	Northern end of Welling- ton Front.
498			_Yes	Yes			. 0	H		6	Bad	planted integral to
498		-	_No	No_		**	2 10	E **	egelasis.	6	Indifferent	
1440	Good	No	- "	Yes_		20	- nefestati t	22	· 20007	4	Bad	Do Times Villa Habbert
180		10		No_			T 8.	00 Pa	· soldill	Never -	Good	as, Magnald Berndu
408	Insufficient	Yes	- "	V		"	4 4	E **	- Mals77	6 months -	Indifferent	28. Town lines Barnelin
490		-	Yes No.	Yes		-	: 0.	20 Pr.	· wanth.	6	Bad	28
408	Cond		No	No	"		- A	= "	m Mafall	6	Indifferent	th. Harpers Bernele
190	Good Insufficient	No Yes	"			**	2 1.	E Pr.	- SUMMONIA	Never -	Good	Northern and of Wall
1680	Sufficient	No	- "	-	" -	10	Se II	Sufficient	DOM: STEP N	6 months -	Indifferent	Northern end of Welling- ten Front.
498	Insufficient	Yes				20	and Mr.	Sufficient	· Change	5	A CONTRACTOR	Attending on cases of cholers.
390	- Insumerent	No		3	10		- 11	Limited	- Madrel	6	Indifferent	and Share Value Holeston
498	-	Yes	Yes	Yes		-	2 10		· Majoria			II. Hericewa Berreche
400		,,	No	No					- Tourning		Indifferent	Thomas ANT amon 21
490	willia					10	2 00		and south		n	- Indahas Hak as
450	Marian S					-	- n-	13 14.	Walter Committee	7		The statement of the st
498			Yes	Yes.		-			M. 311	6	W-4	THE PARTY AND TH
490			- No	No_						7	Indifferent	Northern end of Welling-
1680	Sufficient	No	-	-		,,,				5	0	ton Front.
498	Insufficient	Yes	CHE TOTAL	THE PERSON NAMED IN	or connected	Ties I	THE STATE OF	MH T		7	Indifferent	Northern end of Welling-
	CALL STATE OF THE PARTY OF THE	ALCOHOLD BY	V	4	marring, mile	pano h		uni ott	7/1/2			ton Front.
400			Yes	Yes	"				-	7	Bad	_

Table XIV .- Showing the Sanitary Condition of Affected Quarters, together with Cases and Deaths

Occupation when the E	pidemic appeared,	Aut 2 2 cm2	MSF (0	Dian	rhosa,	Cho	lera.	Floor	Number of
Barracks.	Corps.	Name of Patient,	Age.	Date	Date	Date	Date	where Attacked: "Ground," "1st Floor,"	Room
Data Services	Corps	Continue -		of Attack.	of Death.	of Attack.	of Death,	"2ndFloor."	where attacke
No. fCo.				1865,	The same	1000	2000		
33. Cottage North Front	- Reyal Engineers -	*E. Paxton	26	100.	deep _ goods	1865. 14 August -	1865. 15 August -	Ground	No. 6 Cottage
33. Town Range Barracks		J. Duff	29	-	-	19	20 ., -	1st Floor	16
53. " "		*E. Bleomfield -	29	21 August -		-	-		16
90. Buena Vista Hutment		J. Laughran	28	22 ,,	-	- 1	-	Ground	2
27. Hargraves Barracks		W. Eveleigh	30	23 "		-	-	1st Floor	2
27. " "		*G. Russell	25	25 11	-	- "	-		2
50. Town Range Barracks		J. Clarke	24	25 "	-	-	-	Ground	12
27. Hargraves Barracks		H. Stanhope	31	27 ,,	-	- "	-	1st Floor	2
90. Buena Vista Hutment		W. Stephens	26	28 "	- "	-	-	Ground	2
00. Town Range Barracks	. "	S. Brazier	32	-	-	31 August -	5 September		12
90. " "		D. Pickett	26	1September	-	-		1st Floor	16
90		G. Mitchell	32	3 .,		- 1	- 1		16
90	- manufacture of the same	J. Wilson	28	3 "		= "	437 40	Ground	12
90. No. 2 Engineer Building	s .	*J. Crighton	38	6	- "	- "			2
St. Town Range Barracks		G. Kerrison	25	6 ,,		- "	11-		11
77. Hargraves Barracks		G. Grey	27	9	-	-	07_	1st Floor	1
tt. Buena Vista Married Qr		*L. Lee · · ·	40	13 .,		-		Ground	Qrs. near Me
90. No. 2 Engineer Building		*J. Crighton · ·	38		- 10	15 September	075 9	20	2
27. Hargraves Barracks		J. Middleton	30	15 September	-	1	67_ 6	1st Floor	2
7		J. McNess	25	15 ,,					3
90. Town Range Barracks		R. Dunstan	22	17		200	65_ 6		16
7. Hargraves Barracks		E. Hunt	31	17					1
77. Camp Bay Cottage	less in the	*E. Carpenter	35	20	_	_	0	Ground	Cottage Car
tl. Hargraves Barracks		W. Watson	20	22					Bay.
7. No. 1 Engineer Building	the second second	*W. Springett	38			23 Sentember	23 September		n i
7. Hargraves Barracks	Joseph III - 1	W. Vaux · · ·	28	24 September				1st Floor	1
g. man of perfectly	- He officer	P. Fuggle	28	25				The State of	100
g	description -	R. Hamilton	25	26				i polici	real 100
7. , ,	tell .	J. Lake	28	26 "		_07	or		1
00. Town Range Barracks		R. Dunstan	22	0.0			6%		16
o. Buena Vista Hutment	william -	J. Mullen	29	27		- E/2		Ground	post grow
7. Hargraves Barracks	her .	R. Hodge	31	-		97 Sandamhar	27 September	The second of	1
		P. Henderson	107.50			00	27 September		1000
7	a multiple and a second	T 01 1	29	do Continuitor		28 "	0%		1
	hell .		26	29 September		- Env	107		12
7. Hargraves Barracks	and the first	A. Giddy	28	29			1		1
	tiett "	H. Stanhope	25	29 n		-			2
0. Buena Vista Hutment		J. Weymark	28	1 October -	-		1	Ground	2
0. Hargraves Barracks		*J. Hobday	26	3		-			3
0. Town Range Barracks	" "	G. Wright	31	4 "		E.			12
		D. Adams	25	4 "				- 11	10
7. Hargraves Barracks		A. Hodgkins · ·	27	6 "	-	-	0.00	1st Floor	1
7. Buena Vista Married Qrs	a modulation and and and	*W. Dawling	39	7 "	-	-	23 "	Ground	1
7. Hargraves Barracks		A. Ferguson	23	8 "	-	-		1st Floor	1
7		P. Fuggle	28	11 "	- 40	-	- "		2
0. Buena Vista Hutment		C. Ireland	30	12 "	-	-		Ground	2
77. Hargraves Barracks		J. McNess	25	14 "				1st Floor	1
3. Buena Vista Hutment		W. Bond	32	15 "		-	107 - 10	Ground	2
3. No. 36 Crutchett's Ramp		*S. Spooner	28	19 "			08 - 4	2nd Floor	6
7. Hargraves Barracks		W. Hazel	30	19 "		-		1st Floor	1
io. Buena Vista Hutment		J. Wright	31	20		-		Ground	2
90		J. Sambols	28	23		207	40 Y		2
90. "	a settled to	C. Ireland	30	28 ;	200		675 - a		2

\* Married.
Notz.—27th Company arrived 5th January 1860, from Chatham; 33rd Company arrived 4th Octob
The Sanitary defects of Gibraltar, generally, must of course affect the Troops prejudicially, at

from Diarrhoea and Cholera among the Troops at Gibraltar, during the Epidemic of 1865-continued.

Cubic Feet per	State of	Any 2	Nulsance Time	experier of Attac	aced at the	Water Supp	ly at the Time	of Attack.	How long before	General Sanitary Condition	act motor subserviol
Man in Room at the Time of Attack,	Ventilation:	From "Drains," or "Gul- leys,"	From "La- trines."	From "Filthy Neighbour-hood,"	From other Sources.	Whence derived.	Quantity: "Sufficient" or "Insufficient."	Quality: "Good," "Clear," "Muddy," "Tasted badly,"	the Attack had the affected Room been Limewashed,	of Neighbour- hood of Barrack: "Good," "Indifferent," "Bad,"	REMARKS.
100	- Aleman		Mr.	10.65		2001	100	La minima de la marca della ma		4	
700	Insufficient	No	No	No	No	Wells, North Front	Sufficient	Tasted badly	2 Months	Bad	Arrived from England on 4th October 1861.
610	"		10	"		Tank, Town Range Barracks,		Good	**	Indifferent	n n
	Contract of	10	and Mill	- 14				The Control of the Co	. "	- ·	-
"	Sufficient	"		20	"	Wells, North Front	Insufficient Sufficient	Tasted badly Good		Indifferent	
10		11		**		Tank, Hargraves -	Suncocus	9000	2) Months	Good	_
,,	Insufficient	100	agen a	and more	A 2 5 -	Tank, Town Range	-	and and	,	Indifferent	_
	Sufficient			"		Wells, North Front	Insufficient	Tasted badly	.,	Good	
- 14	,			10			N	II referenta d			
10	Insufficient		10	20		Tank, Town Range	Sufficient	Good		Indifferent	Arrived from Corfe, 16th June 1864.
10	**	10	29	10				manhoul of the	21 Months	- 10	-
70		**	-	**				manage of the			-
700		"	-	**	**	Walls Voods Boost	Town Market	Wasted badle	10		-
610		."	-	N.	EE .	Wells, North Front Tank, Town Range	Insufficient Sufficient	Tasted badly Good	"		
-	Sufficient					Wells, North Front	Insufficient	Tasted badly		Good "	- Park - Comment
700		70		10		11	111111111111111111111111111111111111111		3 Months	Indifferent	
10	Insufficient			10	10			mit A Paul			Arrived from Corfa, 10th
610	Sufficient	-				-		tori annost		Good	June 1864.
20	,					-			11		_
	Insufficient	30	-							Indifferent	-
**	Sufficient	-				* 11		satisfic Con an		Good	_
800		- 1	-		"	4. 11	-		"		-
700	*	n		10		* 11	27 " 020	california .	3) Months		_
000		"		10_	" -	* 11		esti estat.	. "	Indifferent	Arrived from England on 4th October 1861.
		"	10	"-			*	Submister.	3} Months	Good	
					-			or mailer			
,,		- 1	-					The state of the s			_
	Insufficient	-			-			in Underugined		Indifferent	
**	Sufficient	-	Te.	- "			10	Pi .	"	Good	-
		20		10			,,	10	**		Arrived from England, 4th
34	-		-	-		1120000		and the felice			October 1861. Arrived from England, 54h January 1800.
20	Insufficient	20		"				amid whit -		Indifferent	-
-	Sufficient	"	**	20	-			The state of the s	- "	Good	
		-	*	"	-			MATERIAL STATES			
.			-		1			man motor			_
	Insufficient						42			Indifferent	
30								107			rone,—
	Sufficient	-		"			n 1	Contract L		Good	-
700		-			# - I	-		MAN TO STATE OF THE PARTY OF TH	4 Months	Indifferent	
600	**					-20200014		OTHER .	- 10	Good	
**				**		* 11	-	off winders	- "		
-	10	"					- 14	almer.	. 11		
-		"	-	-	"		. 70	WW WI	4) Months		
630				10		- TO A COLUMN TO SEE		Mark Mark	42 Months	39	
010				20	-			MALES AND			
	H	,,						of make a			
20						T. Normalian	H . 100	sect markety to	- "		
			-		N			off annually of	- "		
Distance of				-			OF V SHALL	of books			

1861, from Chatham : 20th Company arrived 18th June 1864, from Corfu.
the very great provalence of intemperance during the epidemic rendered them predisposed to diseases.

Table XIV .- Showing the Sanitary Condition of Affected Quarters, together with Cases and Deat

Occupation when the	Epic				Jones of Attrick.	nel fi	1			1	lera.		es and Dead
Barracks.		Cor	TDS.		Name of Patient.	Age.	Date		Date	Date	Date	Floor where Attacked: "Ground," "1st Floor,	
	74		2000			Immi	of Attack.	of	Death.	of Attack.	of Death.	"2ndFloor."	where attack
Comp. Wile Amili Will		resh Washi	landan.		Touch Mondish		1865.			1865.	1865.		
Camp, Windmill Hill -		78th Highl	tanders -	P	te. Joseph Trosdick -	26	19 August -	1419	010	102	88 0	amin	met Toni
							remailment,	H'Z		12 10	- 1		100
		-			, Peter Gallacher -	24	-	i in	- "	25 August -	25 August -		
* -				1	"George D. Waddrell	28	1 September	a C					
				,	James Smart -	21 20	4		- "				= -
		1000		i	James Beveridge -	21	5 September	127	_ "	5 September	5 September	tamin	Complete Com
-	-	-			, Alexander Bruce -	20	5	SIA	- "	-	" "	Brest	-
CHE AND BANK	-	ordillor in			r. John Laing	19	5	max	-	-	- 1	dustale	Louis -
		-	minnie.		e. D. Henderson	19	8		-	-			
				1	J. Ferguson - John Noble -	24 26	8			-	- ] -		-
					James Boyd -	19	13	L. W	- "	_	- ] -		
					, Archibald Wilson -	23	south Town?	ent	-	12 September	1 - 1		-
			4 .		. John Lindsay -	23	13 September	BW	-	-	-	the epidemic.	Gall - L
can place and survey	-				, John A. Mitchell -	19	13 ""		- "			e epè	_
					, Thomas Park -	23	13"		- "	-		og th	bend - "
			- 1			20	16			= 1		were during	-
				Dr	. Joseph Condle -	18	16			=		were	mm
	-				e. John Dallas -	22	17		-	-4	n - n		
	-	-	mexic		<sup>4</sup> Thomas Lucas •	21	17		- "			chlan .	-
or having two being	1	**				21	19		-		"	78th Highlanders	-
					James Stevenson - *AlexanderLongmuir	21 23	21						
			unnut to		William Dallas -	18	24			_		where the	1.
					James Nelson -	20	24		- "				
				*		36	27		= "	-	- 1	Vindmill Hill,	
		-0 -			D. Henderson -	19	28		_	1 October -	4 October -	Illimill	105
			10	ľ	* "					- 4	11 14		
And could					John Dallas - John Murray -	28	2 October -		= -	5 October -	6 October -	Camp,	
	-	-0 -		-		21	4 October -		_	-	1	9	Total Table
	-			Dr.	Charles M'Lauchlan	17	6			-	-	cases occurred in	-
-			1911		. John M'Lelland .	23	6		- +	-	7	1300 8	
		mares.		20	Robert Lawns - Charles Young -	23 19	8 -				" I "		
				17	George Taylor .	29	8		_	_		All these	_
	-	40 .		-		26	9		- "	-	-	NA.	
			alles M.		F. Wightman	28	-		- "	13 October -	16 October -	- 41	-
-				30	James M'Cod - Andrew Kerr -	21	14 October -		_	-	- I -		700
					Thomas Lucas -	23	16		- "	-	-	-	
	-		mar g	**	William Wainer -	38	16		-	-			-
	-		The second	31	William Ross -	22			- 4	-	4 7 4	-	
		-		**	Peter Egan - James Mitchell -	24	19 October -		- "	13	- I -	4	I
					William Boyd -	30	31		_		1 -		-
	-				William Duyind -	21	1 November			-		- "	-
	1	**	. 1	te.	Thomas Russell -	22	1		- "	-		-	-7.
				**	Edward Trainer -	19	8						
	1		-	**	Donald Cattanuch -	20	22	dia.	about to	all ports		4	

Very many more cases of diarrhosa treated chiefly at the dispensary in camp. Nearly all

com Diarrhoa and Cholera among the Troops at Gibraltar, during the Epidemic of 1865-continued.

bic	State of	Any 2	Nuisance Time	experien of Attac	ced at the	amost	Water Suppl	ly at the Time o	of Attack.	How long	General Sanitary Condition	military intraspession
t per an boom the se of nck.	Ventilation: "Sufficient," "Insufficient."	From "Drains," or "Gul- leys."	From "La- trines."	From "Filthy Neigh- bour- hood."	From other Sources.	Whe	nce derived.	Quantity: "Sufficient," or "Insufficient."	Quality: "Good," "Clear," "Muddy," "Tasted badly."	before the Attack had the affected Room been Limewashed	of Neighbour- hood of Barracks: "Good," "Indifferent," "Bad."	REMARES,
1	Sufficient	None	None	None	None	bar	water was ted up in rels, and ived from	Sufficient for drinking and culinary pur- poses.	Of good quality, but was some- times muddy after heavy	and their	The camp and its neighbour- hood was kept scrupulously	
1	merc	tet institu	1000	- 41		tan		1000	rains.		clean, and in good sanitary condition.	
- 1			74						020	- 1	-	-
1		-		- 10	7 .					-		* This man was rea taken ill in the town
	- Land			,,	THE REAL PROPERTY.	198,603	motorning st			- 1		Gibraltar.
-	W March	-								- 1		_
		potes	100		and , -			12	1	11		<sup>b</sup> A relapsing case,
	. 1000			101				11 2007	interior of the			
2	. 1027	ni .			T			50 . · F	of mind		- "	· - 2017ab
		0	2 -					12 T - 1000	mile in	-		· Mount di
1			-							-	-	_
1	· sasti	MI .		***	10			at a mod	SECTION OF THE	-		
	-		9000				-	tt " mille	Transfe . 15			
		-	-				-			-		_
-	· m tool (	100 %		1811				B " - me	minima a m			"First attack, "Cholerai This man died aft
	- Inner	0	-				no Local de Dice.	at limb	Land open to	-		wards.
10 m										_		
	Same a	intr ( a tree	CASON TO	- 1	01 -		-	33 - 404	Tunis Transition	-		
										_		_
	Lieno	D - 5H	mos.	- 00000	01		-	41 100	Wandi L G			_
	. 70.7		1600	- agent	0			Di - min	CICLES et			(*Boththese men werese
	. have	3	-	- "	08		-	di James	19.00 E 01	-		ral times under tre ment. Latterly their
										-		tacks were "Choleraic
-	5		-	,,			- StideteOre	100	R. J. ASS. D. St	-		_
		,-	-		- vade	om		12 2761	of the Gen Oa	-		· Choleraic diarrhora.
1	named a	and a				77		20 1000	Hankly T			
		-			pdeer	20		tr 1100	dusty . d	-		
		10								-	-	_
		-	-							-		_
1		-	**				10			-		Second and fatal seize
	. Len	3 1-15	MAG	- 500	A 25	-	-	ts of a me	SALL OFFICE OF	I Labour	pullbett -	Died of the second fever.
							more broaded	"				_
	20011		- "				- Marie Contract		Marine Marine	-		
	d Lucy	0	"	10	1 2 -		- B	21 -	John Lenda	-		- Distribution
		-		20			-	DE DOOR	The state of	-	-	
-			- 2	-			and makes to a	-	STITL STORY OF THE			-
						1		22 100	Teamsoff worth	b _		
o o		1		- Carolin				4	and the state of	6		*Choleraic diarrhora.
	D market		- "	and was in	Qu.			-	West way Brill on	-		- Constraint diarrigue
	200		-					200	Toronto.			* Died of secondary fev
1		71			,,							- Constant of the
1	10		-			1	melonalgali (1	m j - m	total orași.W	_		
1	well	36 L	-	"		1	- 66	12 1- 1	Janes Charles	-		Choleraic diarrhosa.
1	Note .					-		a e	Dall orgoit	_		- Succession of
						1	-			_		_
-	thill .						1	10 - 000	Bolt makenin	-		
-	,,		-				21	12 . mil	all and a	2 9-		townst - Law Photo
			a green	no.	014	1		11	partition La	-		Agenda to marked and
	20	250	1000	or disease	100 m -			21 .	Endant Com	-		_
				ordinote	345 m	-		10.	BASSER GREEK	-		-
11.0		The state of the s		THE RESERVE OF THE PARTY OF THE		100					The second second	
	-		- "				referenced to	to	STORY SHOW	-		_

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Table XIV .- Showing the Sanitary Condition of Affected Quarters together with Cases and Deaths

Occupation when the	ation when the Epidemic appeared.	demic appeared.	dault won't	12 10	Diarri	hora.	n la	Chol	era. plate co	Floor	Number of
Barracks.		Corps.	Name of Patient.	Age.	Date of Attack.	Date of Death.		ttack.	Date of Death.	Attacked: "Ground," "1st Floor," or "2nd Floor."	Room where attacked
South Barracks -	10	2nd Batt, 23rd Regt.	No. 788 Ptc. Benj. Forsee -	26	1865.	1865.	20 At	565. igust -	1865, 20 August -	2nd Floor	5
			902 , John Dymond	85	Tare by	_	31		5 September	1st Floor	11
Naval Hospital			712 " J. M'Cormick	25	-	-	7 Se	ptember	7 10		27
South Barracks -			1143 . George Laker	43	-	-	17	10 .	18 ,,		3
PART OF STREET		-	296 , Wm.Hammond	37	18 September	20 September	1	-	-	Ground	2
	-		574 " James Truscott	29	19 "	-		-	-	2nd Floor	5
The second section is a second			1223 " George Lees -	26	-	-	21 Sc	ptember	23 September		5
			467 " Charles Vines	25	-	-	26	**	28 "	Ground	6
Rosia Hut			325 " John Smith -	43	-	-	27	**	-	1st Floor	1
South Barracks •			1420 " Robert Ivens -	26	-	-	28	10	28 September	Ground	1
			727 , Thomas Johns	30	-	-	28		-	1st Floor	4
			1157 " Henry Rollins	29	-	-	29	10	1 October -	20	12
John M. D. T. Seekle Toyler			1177 " J. Dickenson -	27	-	-	20	10	-	2nd Floor	
Iut at North Front -	-		306 Corp. Wm. Briand	25	29 September	-		-	-	Ground	1
South Barracks -	-		516 Ptc. Thos. James -	26		-	10	ctober -	7 October -	2nd Floor	5
			349 . Thos. Whitting	29	-	-	200	etober -	2 October -	Ground	6
mercar muc a shipping			398 " Jas. Milliner -	25	-	-	40	ctober -	4 October -	1st Floor	10
distribution ( a man )			1119 " John Podmore	26	-	-	40	ctober -	-	Ground	2
			658 CSerg, T. Birkett	30	6 October -	-		-	-		Married Quarters.
A CONTRACTOR OF THE PARTY OF TH			67 Ptc. Geo. Garrett -	33	12	20 October -		-	-		1
			567 " John Higgins	26	14 ,,	17		-		2nd Floor	2
			758 , Chas. Barton -	27	31	4 November			_		1

	-									-	-
Buena Vista -		32nd Regiment, L. L.	Pte. William Proctor -	22	1865.	-	1865. 22 August -	1865. 24 August -	Ground		3
	•		" Henry Binmore -	28	4 September	-		-	1st Floor		10
Europa Hutment .			, John Lowden -	25	6 ,,	-	-	-	Ground	Hut.	Room.
Buena Vista -	-		" Charles Frampton	25	-	-	6 September	7 September			3
			" Thomas Hilton -	35	6 September	-	-	-	1st Floor		9
			CSerg. Thomas Purtill	35	6	-	-	-	Ground		6
Control destate		-	Corp. James Crump .	29	-		8 September	9September	**		3
	-		Pte. Mathew Lynch .	23	-	-	9 September	-	1st Floor		7
Naval Hospital -			" John Bidwell -	26	-	-	11 September	-	Ground		5
Buena Vista		:	" William Hinton -	31	10 September	-	-				1
	-		" James Church -	22	.10	-	-	-	1st Floor	1	7
Europa Hutment -			" Thomas Holmes -	25	11 ,,	-	-	-	Ground	Hut.	Room.
			, William Redman -	25	11	_			20	Hut.	Room.
Married Quarters, Europa P	ass		Corp. George Harding -	26	13 ,,	-		-			20
Under Canvass at Europa			Pte, Joseph Sharpe -	20		-	14 September	14 September			-
		-	" Richard Gray .	23	-		14 September	15 September			-
			" Hugh Mahon -	21	-	-	14 September	-	10	1 1	_
			" Albert Pitman -	27	12 September	-		-		1 3	-
Buena Vista			" James Ballard -	19	12 %	-		-	1st Floor		7
			" George Higgins -	25	12	-	office Torne	va met sall.	o and mo	MI KAP	12
To colour hors		1 M . 2 2	John Tinson -	24	12	-	-	-	. 10	1	11

from Diarrhœa and Cholera among the Troops at Gibraltar, during the Epidemic of 1865-continued.

Cubic	State of	Any	Nuisance Time	experies of Attac	nced at	the	Water Suppl	y at th	ne Time	of Attack.	How long	General Sanitary Condition	I odd and is an improved.)
Feet per Man in Room at the Fime of Attack.	Ventilation: "Sufficient," "Insufficient."	From "Drains," or "Gulleys."	From "La-trines."	From "Filthy Neigh- bour- hood."	100	other rees.	Whence derived.	" Suf	entity: fletent " or fletent."	Quality: "Good," "Clear," "Muddy," "Tasted badly."	before the Attack had the affected Room been Limewashed.	of Neighbour- hood of Earrack :	REMARKS.
379	Very good	None	None	None	No	one	Collected in tanks from roofs of buildings.	Sui	Meient	Good	1 Month	Good	The cubic space although clearly insufficient, was in a great degree com-
579		-	105	referred of	THE					sudConfeet)			in a great degree com- pensated for by the excellency of the (cross)
2708			- "				and a second law	202		athly was	3 Months		ventilation, and a fre current of air secured b
379			20	10	-		* 15	-		old makery	6 Weeks		keeping the window always open. The la trines, although object
379					BAL .			de		full often	-		tionable in construction
379				-									stant flushing, fumige tion, and the use of
379							industrial of	110		and the first state of	1		disinfectants. The drinling-water was, as far i
379			1917	*	1000		- 1		-	oldshill dyl sy			possible, boiled an filtered before using
1079							terlandenileer "			military and			filters being liberal supplied. The bedding
		notice.	September 1	n Drestor						1002 (0.00			originally dirty, was e changed for clean, which
379				**	100							"	was exposed frequent to the sun and air, an
379			- 10				Total Control of		10			10	no measures calculate to improve the sanitar condition of the barrack
379							_ et			worth idea.			and men were neglected
II.	The state of			-	Res .			100	Section 1	salt market?			if any, of the battalio
379		-		10			mduMapher :	ing.	9 m	and alter .	-	*	diarrhora during the prevalence of the ep
1200	ъ "	. 10	(-) W	t e			Tank at North Front,	H		Clear, but impure.	Never; a small painted hut.	Indifferent	demic, but most of the cases were found ver amenable to treatmen
379		-			-		Collected in tanks from roofs of			Good	6 weeks	Good	being controlled by astringents, furnished the men both in barraci
	-	The state of the s	dough la	an married			buildings.	12		well side at	-		and on guard, with i
379			19	-				-	25		м -		and non-commissione officers for their ear
579					-			61		a second			use, and under this pla few cases required as
379								12		The state of the s			mission into hospital.
-	T - 1100 1										The said		Sensi Hospital
607	Indifferent			-			and analysis in	12		W Inches W	-		- touring eyan
379	Very good	"		-	,			1	"	Wante of the last			Account mercan District
379			.,		,			13		mil ingall on			- abit7
379	2 10	-						100					

# B. Typp, Surgeon, 2/23rd R.W.F.

	1-8			1						-					1
528	Insufficient	None	None	None	1	None	Tanks	onderke		Insu	fficient	Muddy, tasted badly.	6 Weeks	Good	and the state of t
512	nint le	an Statement				10	,,	-			-	ant makter	2 Months	-	-
518	mar w											"			Tomps Hainest .
528				,,								il miwiki basaki			Employed in Public Works.
512				-	77	, -						all) salpato er		-	Norma Ho—or -
528								and party				met prett .		-	Diff month
528			"		1	"						withward the			-
1233	Sufficient		"	"	10		-					-	6 Weeks		Hespital Orderly,
528	Insufficient		000	all makes			1					TW makerw			Bacope Highway
532	ansumerent no					-		matricel				William Wi	2 Months		Employed in Public Works.
518	Sufficient					-					Thurs	(elf second)			Herr week
UEO	Summent		- "	"			"	4000				. J. Penny De		" -	
518												or and wilder	10		Hadry Garrage 25 Hurrage
910	29								-			ha Gorgon Then	9 Weeks		The state of the s
	"			"			**	along) i	-			William Mil	-		more and Harlow W.
-				-		-							=		Among
-						-					0.0	Triffied Int	- 1		In Public Works.
512	Insufficient					-					* 4000	W dothit go	9 Weeks		
512	-	-				-						rofolt-Milk-gen			* ato W matte aquast.
100				4		in			-		N 100 d	rice Occilies Hard		20	North Headlish .

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Table XIV .- Showing the Sanitary Condition of Affected Quarters, together with Cases and Deat

Occupation when the l	pid	еше арра	word and	Social is and	odt in	Diarr	moes.	Che	dera.	Floor where	Numb
Barracks,		C	orps.	Name of Patient.	Age.	Date	Date	Date	Date	Attacked: "Ground," "1st Floor"	Roc
2001	-	Marie Die	Seafonces	of the party of th		of Attack.	of Death	of Attack	of Death.	"2ndFloor."	where at
Inder Canvass at Europa		32nd Res	giment, L.I.	Pte. Martin Hannon -	23	1865. 13 September		1865.	1865.	Ground	
Buena Vista		10000		., John Tye	28	13	-	The Park	1000	Ground	TOW IN
loldiers' Home				. Charles Marchant -	35	100000	19	14 September	1 October	-	
the second of the second					1						
Buena Vista				John White -	26	13 September	-	-		1st Floor	1
			**	William Slater -	28	14	-			Ground	
Saval Hospital			**	" George Hartnett -	52		-	16 September			1
Duropa Hutment -				Bugler Fred. Shakes -	21	16 September	-	-	- 1		Hut.
Duropa Hutment -				Pte. Job Knighton -	26	-	-	16 September	17 September		Hut.
tuena Vista				Serg. John Humberston	27	16 September		-	7		
uropa Hutment -				Pte. Seth Ellis	31						Hut.
uena Vista		-		" Thomas Ford	29	-	-	10	22 September	-	5
Comment of the control of		et.	" "	" Samuel Smith		18 September	-	18		1st Floor	
nder Canvass at Europa				" John Darwent -	25	10				Ground	1
uena Vista		"		" William Smitheram		-		19 September	r 25 September	1st Floor	
autros entres		-40		" James Muldoon .	25	19 September	_	-	20 or premior	Ground	
legat may stop	1	- Tantar		the that were a	1	down to the st	Long Long				Hut.
uropa Hutment -				Charles Arthurs	25	Jane	- '	19 September	24 September	m "	1
and a distance				Corp. George Harris -	21	19 September	90	-	- T -		1
and to employed				Pte. John Brown -	25	Feithfu	-	20 September			8
Total mide				" James Willett -	19		-	20 "	21 "		8
ena Vista				" John Dumma -	27		-	20 ,.	20 "	10	8
aval Hospital •				" Thomas Hughes -	32				I I	1st Floor	1
arm acception		4		n Thomas Tragina				23 "		Ground	Hut.
ropa Hutment -				Serg. Richard Wilson -	24	21 September	-	-	-	20.500	Hut.
arried Quarters, Europa Pa	88			William Fletcher -	27	23	-	- 1		Monra	17 1
iena Vista	-		<b>89</b> (0)	Pte. Robert Hargreaves	22	23 "			. 7 .	1st Floor	1
ropa Hutment -			"	Richard Pugh	24	23	-	-		Ground	Hut.
ena Vista			OFTEN S	" John H. Gordon -	29	-		23 September	-	1st Floor	
				" Richard Fletcher •	20	23 September	-	-	-	Ground	
ropa Hutment -				" Alfred Pickles .	27		1	24 September			Hut.
ena Vista				_ John Lench .	24	24 September	MT DOL	-	miz Front	1st Floor	3 ,
		9	And the little of			-					Hut.
repa Hutment -				William Beacham -	21	-	-	26 September	27 September	Ground	3
geants' Room, Europa Hu	1-			CSerg. Edwin Deacon -	32	_	-	27	27 September		Hut. Se
ment.			- 4	Die Charles Clarks				1000	- N	- 4	
ropa Hutment -			-	Pte. Charles Clarke	33 21	24 September	. 5 .	27	4 7 4	- 20	3
ii .			-	William Slater -	28		-	17.	- 7 -	1st Floor	12
				" William Hodgkinson	30	28	_ 9			Ground 1st Floor	12
Houstled Integral			alsoW a						9	184 F 100F	Hut.
ropa Hutment .				Michael Flynn	19	28 "	- "		11 - 11	Ground	3
and the special			. Strott o	William Witham -	22	-	-	28 September	4 October	A COURT	2
ona Vista				Thomas McKenniff	25 26	29 September			4 4	10 et	2
				" J. Henry Gordon -	29				. 1- 1	1st Floor	10
der Canvass at Europa				Corp. William Bond -	28	2 October				Chennel .	9
2000			-							Ground	Hut. 1
ropa Hutment -			MISSIN O	Pte. George Thomas -	32	2	-	-	4 7 4	10	2
				William Miller .	21		-	4 October	- 7 -	Prison	-
rried Quarters, Europa Hu ent.	-			" George Bogue -	28	2 October		1 -	7 7	Ground	4
ropa Hutment -	-			" William Luton -	27	2 .					6
ema Vista			- ALLEGE A	" Thomas Bradbury -	32	2 "					1
				Serg. Joseph Williams	25	2				1st Floor	10
ropa Staff Huts -	-		. "	SergMaj. John Kelly	36	5	-	-	-	Ground	-
nl Hospital			S. 15	Pte. George Hartnett -	32	5	120	120	6 1 10		7

om Diarrhoa and Cholera among the Troops at Gibraltar, during the Epidemic of 1865-continued.

Cubic	State of	Any N	uisance Time	experience of Attack	ced at	the	1000	W	ater S	uppl	y at ti	he Time	of Attack.		How long	Gener Sanita	ry	athmeteral report
Man at the line of ittack.	Ventilation: "Sufficient," "Insufficient."	From "Drains" or "Gulleys."	From "La- trines."	From "Filthy Neigh- bour- hood."		m other urces.	w	hence	derive			ntity : leient " or Scient."	Quality: - Good," - Clear," - Muddy," - Tasted bad	ly."	before the Attack had the affected Room been Limewashed.	Condition of Neighborhood Barrac "Good "Indiffer "Bad.	ent,"	REMARKS.
	Sufficient	None	None	None	1	None .	Ta	nks	ALON O		Insut	flicient	Muddy, Tasted bad	De	9 Weeks	Good	ı	Duren Very
528	Insufficient	79				10							natr and by	7.		33		Transmitt assessed
335}	Sufficient			Bad Drain-									TOTAL TO COMPANY			-		There is a second or second
512	Insufficient			age. None									Hater Pres			10		In Public-Works,
528	tott #	"														-		
1157	Sufficient						+13						motel adol	Last.	7 Weeks		10.	Employed as Hospital
	1		-	-									form Dayroo	-				Orderly in Public Works.
518			- "			"							pool sacrati		9 Weeks	11	1	
518		-	74	-					. "				PERW Rider					Total Control of the Party of t
528	Insufficient		10	-		10							n -		. "			
518	Sufficient		-										n'Cannod'	400				trendutt agenut
512	Insufficient		.,						2				ioant miet	300	1 Week		1	Employed as Hospital
528	-			-					. "	-		100	stavil mio	1000			-	Orderly in Public Works.
- 5	Sufficient		10							62		,,	outil'i some		-		1	Employed as Hospital Orderly in Public Works.
512	Insufficient	-	10				1		- Chil	-			Francis Me	ALC: N	1 Week			Orderly in Public Works.
528			10	-						-		,,	-					
518	Sufficient	2		1	2.30							79	ting's source			1000000		_
518												"						-
518																		_
518								_	200	-								_
518	lieb Lines	D. Callyin		dia.	12	-					TE		mivh! esecs	-19				Column to Linear
512	Insufficient	-	- "			-												Employed as Hospital Orderly in Public Works.
1233	Sufficient	-			10		-1		-	-	12	Name of	seri distanti	30	2 Months			Orderly in Facility works.
518		3 1000													1 Week			The same of the same
910	1		1		1			1			104			26,10	2 Weeks			_
512	Insufficient			,,								19						_
			+	10.	II		-		-		EE -		sary M. rooms	1.00		1 1	-	You Work No. Winshes
512	Sufficient	-				"		Trists	metgall	at 1	er	- at	on best mist	t				In Public Works.
528		-	-							_]		" -	-					-
-	10		-	-					G.	5	100		The statement					PROBLEM STORY BUTCHER IN
518	Sufficient	-	-			"				1			THE WORLD			1		Samuel Grant
512	Insufficient	-						-	-	•	1	10	or and and					Wodard IIII burnele
518	Sufficient			-	do		_		-		az.		or will lames					- stall ten illeber W
330	Insufficient	0																
-			10.0	"	-	21				ı		"	The same			1 "	1	The second second
518	Sufficient				100	10	-	-			ct	**	Denne Pido		- "-	-		-
513	Insufficient		-	0-	1	10 .		-	100	- 1	12		mental ment			-	-	-
528	MARKET S		- "	19_		g1 .	-	-	4	1	(2	** 100	Jeon House		- "-	-		steems and the last
512	- temp					"	-	*	-	0	100		Daw mid	S.org				Paternal of pales
518	Sufficient	-										,,						_
518	-		10			**		-										In Public Works.
518			-					*	-						3 Weeks			
512	Insufficient		- "		10		-	-	•	1	1		Description of			4.	-	al-wall minhology
512	Sufficient			**			-	-		1	1		er or count		- " -	- 14		
1000	- NI			"		-		-	14	1		-				1		
518	· ·		-	5	1			-		-		-	THE PROPERTY OF THE PARTY OF TH	-		-		
-			-	.00.	1		-		dealto	44	2	3011	denot mark				-	7
518	Sufficient		-	м.			-			te .	12		orna Britan	- 11	. 3 Weeks	1 .		Hostin Comp. Prison
518	-		-						3.		-		-					-
\$28	Insufficient					**					-		**			1		In Public Works.
512		10				-					-	-						_
480	Sufficient		-					-							1 Month			_
1157	The second second		100												9 Weeks			Employed as Hospita

Table XIV .- Showing the Sanitary Condition of Affected Quarters, together with Cases and Death

93(4)(12)									Floor	44 3 4
	TALK.	March all	Name of Patient.	Age.	Date	Date	Date	Date	where Attacked: "Ground," "1st Floor,"	Number of Room
Barracks.	C	orps.	Appendix and a character of the control of the cont	mat	of Attack.	of Death.	of Attack.	of Death.	2nd Ficor."	where attacks
Buena Vista • • •	32nd Re	giment, L.L.	Pte. Joseph Howard .	27	1865. 5 October -	- mi	1865.		Ground	5
Europa Hutment			William Plant	19	5	-	-	1		Hut. Room
Moorish Castle Prison			" Peter Halliday	25	9	-	salaret	-	Prison	-
Buena Vista	-		Corp. Henry Paget	25	10 , .	- "		-	Ground	5
Europa Hutment			Pte. John Mateer	28	10	_			70	Hut, Reon
and the same in the same	-	Admin to	" John Dawson	30	10	_	_	_	-	5 2
ю .		tripolit e	" Thomas Boland	33	10	-	-	_		1 1
Buena Vista			Corp. John Wright	25	11 " .	-	-	-	1st Floor	10
Soldier's Home • •			Pte. James Shopter	25	-	-	12 October -	-	Ground	-
Europa Hutment			Corp. Thomas Price	28	15			_		Hut. Room
Buena Vista			Serg, John Jones	37	15	_ "		-		1 1
Windmill Hill Prison	-	-	Pte. John Pugh	25	23	-	-	-	Prison	-
Buena Vista			" James Wilson	20	29 " .	-	-	-	1st Floor	11
Under Canvass, North Front -	2/22nd R	egiment -	Corp. Francis McKenna	27	26 July	-	-	_	Ground	-
	HMS.	Redpole "	A.B. James Thompson	29	_	_	27 October -		On board	
	1	-	The value and pro-				2, 00.000		ship.	sur of
Catalan Bay Barracks -	86th Foo	t	Ptc. James Livings -	27	1865.	- 1	1865. 3 September	1865. 3 September	Ground	Guard Room Sandy Bay
STATE SALES OF SHARE		- Marian		-	119					
Rosia Casemates			Serg. Patrick Currivan -	38	-	-	5 ,,		1st Floor	9
Catalan Bay Barracks -	-	San W. E.	Corp. Thomas Cullinan	23	-	- 1	7		Ground	1
			Pte. James Plynn	33	-	-	11 ,,			2
Buena Vista Hutments -	-		" John Maddock -	19	14 September	- 1	-	- 1	- 1	Hut. Roo
Windmill Hill Barracks -			" Patrick Byrne -	24	15 "		-	-		5
			" Jereminh Callanan	22	16	-	19 September	-	1st Figor	Dec -
Naval Hospital			Henry Kelly -	21	-	-	24 "	-	W -55	16
Windmill Hill Barracks			, Patrick Foobey -	24	-	-	26 ,,	26 September	Ground	2
Windmill Hill Huts -			" Samuel Brown -	15	-	- "	4 October -		-	20
Buena Vista Hutments			Corp. Boyd Magarrigle -	34	-	- 1	5 ;;	5 October -	bestrik.	Hut. Roo
			Pte. Thomas Flood -	19	-		5 "	6 ,,	limite.	2 2
21	. 10		John Wilson -	25	5 October -	- 0	-		1	3 1
Windmill Hill Barracks	- "		Serg. John Hamilton -	29	6 ',,	- "	-		1st Flode	10
Catalan Bay Barracks			Pte. John Walt -	19	6	-	-	-	Ground	1
Buena Vista Hutments			" Michael Rourke -	30	-	_	7 October -	8 October -		Hut. Ros
			" Mark Sinnott -	25	-		8 "		- Marine	Guard Ros OldNorthFr
_и.			" Joseph Stanton -	25	-	-	9	17 October -	1st Floor	11
Buena Vista Hutments	- "		" David Shannon •	36	-	- 1	9 ,,	14	Ground	Hut. Roc
" Hoorish Castle Prison -		could b	" James Cumberland " James Byrne —	23 31	12 October -		-		lisibil	2 1 No. 11 Co

from Diarrhoa and Cholera among the Troops at Gibraltar, during the Epidemic of 1865-continued.

Cubic Feet per	State of	Any N	Time	experien of Attack	ced at the	-	Water Su	ppl	y at the Time	of Attack.	How long before	General Sanitary Condition	
Man in Room at the Time of Attack.	Ventilation: "Sufficient," "Insufficient."	From "Drains" or "Gulleys."	From "La- trines."	From "Filthy Neigh- bour- hood."	From other Sources.	When	ee derive	d.	Quantity: "Sufficient" or "Insufficient."	Quality: "Good," "Clear," "Muddy," "Tasted badly,"	the Attack had the affected Room been Limewashed,	of Neighbour- hood of Barrack: "Good," "Indifferent," "Bad."	REMARKS.
523	Insufficient	None	None	None	None	Tanks	elell Starsk		Insufficient	Muddy, tasted badly,	1 month	Good	In Public Works.
518	Sufficient		-	10						-			_
-	-			10						-	-		_
528	Insufficient		-						.,	-	5 weeks	-	
	James		1						Millery	amil's	/ med	na legal,	To Post of March
518	Sufficient		-	10			Lewis A.			- Same			In Public Works.
518		"	-			-							
518	10T P	"	-						All To 1	- contratmon.			
512	Insufficient	19:	-	20					-	*		-	_
212}	Sufficient	16	-	Bad drain- age,					A. 11. *L	* Stand		-	In Public Works.
518		10	-	None	30					all all the last			_
518	Insufficient	10	-						4.	-			-
- 14	-	79	-			-				allah?	-		
512	Insufficient	-								- H2(W.31)	6 weeks		
-	Sufficient	-	-	-			-		61 -	pr	-	-	22nd Regiment from Mal First case treated in 32 Hospital.
-	Insufficient	-	-	-	-		-		-	sulf	-		Sailer from H.M.S. " Re

# J. K. CARR, M.D., Surgeon, 32nd Regiment, Light Infantry.

								THE STREET OF			
On sentry	Sufficient	No	Absence of la- trines.	Yes	None	Reservoirs and pumps.	Insufficient	Quality differ- ing from the different pumps and reservoirs.	S weeks	Indifferent	Dirty population. Want of latrines; and tainted ment for some time to detach ment.
1200	Insufficient		No						14 days	Bad	From tidal deposit.
572	Sufficient		Absence of la- trines.	-	-		1	white it is	4 days	Indifferent	Dirty population. Want of latrines; and tainted meat for some time to detach- ment.
572	-		-			. 5	-		6 days	-	The state of the state of
625		Surface drain.	No	No	-				14 days	Good	Absence of water for flushing purposes.
334	Insufficient	No				- 25	10 1	in matters.	6 days		
319		+		"		- "	701		12 days		
2840	Sufficient	Yes		,,		2 11	OH 2		23 days	Indifferent	From numerous drains.
332	Insufficient	No				- "		- promise	6 days	Good	_
330				11		-			9 days		
620	Sufficient	Surface drain.					201 -	2000	12 days		Absence of water for flushing purposes.
625								- 10	8 days		
620	29					-	-	- ndeado.	12 days		и и
330	Insufficient	No			,		" "	- gatunii.	16 days		
580	Sufficient		Absence of la- trines.	Yes		: :	S -	- Letterit	21 days	Indifferent	Dirty population. Want o latrines; and tainted men for some time to detach
625	-	Surface drain.	No	No			91 .	- plant .	14 days	Good	Ment.  Absence of water for flushing purposes.
On sentry	-	No	0008	200				Toront.	16 days		
336	Insufficient	10	01		4		-	- actual	7 days		
624	Sufficient	Surface drain.	-			-edesous		- Coloit	3 days		Absence of water for flushing purposes,
630	.,		100				-		10 days		
		The second second									

H. H. Jones, M.D., Surgeon, 86th Regiment.

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TABLE XV .- SHOWING the SANITARY CONDITION of AFFECTED QUARTERS, together with Cases and Deaths from

Occupation when the	Epi	demic appeared.	Totalion Totalion		Brunt	Diar	rhora.	Che	olera.	Ploor	12/2
Where Quartered.		Corps.	Name of Patie		Age.	Date of Attack.	Date of Denth.	· Date of Attack.	Date of Death.	where Attacked: "Ground," "1st Floor," or "2ndFloor,"	Number of Room where attack
-		H 4					4			desti	April 21
						1865.	1865.	1865,	1865.		
Ioorish Castle		Possil Autillans	W Dones		6/5	4 July -	1000.	1800.	2500.	Ground	***
Coorisis Castile -		Royal Artillery -	W. Percy		3	1 August -		E.		Limite	36
			C. Falkner -			144		Louis		10	8
			E. J. Baker -		3/4	115				10.	33
	-		A. Montgomery -		24			- 5.		doctets.	1 Off. Kitel
ABOUT MAKE			E. Kemp		1 3 hours	ot		Esan		- treas	36
	•	"	E. Sandy .		11%	23 ,, .		700		"	40
			M. Smith -		33	26		70070	- 7	" "	9
	•		A. Thyme -		29	20 " .	7 5	- E	- 7	* reduit	23
			W. Smith .		10	29	F	F	-	" -	34
		A P. PROPE	A. E. Weeks -		1/4	1September		-		n d	43
			S. Taylor -		14	1	-			· dittala	26
-	-		A. Montgomery -		14	4 -	-	-			1 Off. Kitel
	-		S. Mann -		26	4 11				P	45 & 6
	-		C. Falkner -		24	5	-	-	-		8
with the Line of the later		elecsibles a	W. Smith		11	5	-	-	-		34
	-		J. Falkner -		2	5 .,	-	-	-		8
	-		A. Smith -		13	5	-	-	-		34
The Street of th		Contract Contract	A. Silver		2/5	5	- moi	-			13
and at mall among			T. Baker -	-	10%	-	-	8 September	10 September	-	32
	-		E. Moore -		6	9		-	-		40
			J. Moore -		40	9	-	-	-		42
		add toha	E. J. Baker .		5	10	- "		emeta .	a point	32
			M. Smith -		33	11	-	_	Sharet .		34
		-	M. Conolly -		35	12	-		-		29
ince Albert's Fort .			J. Clarke .		1	12	_		" _ "	. "	10
oorish Castle		Smp I would	M. Pearson -		24	12 .	- "	_075	olf _ south		11
			A. Poultney .		29	12 "	-	_	1 100		
			R. Poultney -		2/4	**	_ "	-	1 1 1	1000	2
		and Miles	F. Baker -		10%			The second			32
Harris and the said		manage commit	S. Buxton -		31		_ "	5 St. 19	1	Suptr	38
		and the same	E. Perfitt		32	10 "	_ "	15 Sentember	15 September	200	15
		- House		-	District		1 1	10 ocptember	10 deptember		27
off by the same for any order of		and the	C. Barny -		28	16 ,,				on Santa	Jan 18 18
			S. Perfitt		10%	16			3.00	0 "	15
		- " -	E. Kemp -	1	94	16 "		10			36
		w confict	M. Chandler -	-	29	16 "		17.0	- 7 -	" "	37
	-	- reshirt	S. Buxton -	-	31	25 ы	-	Et	- 721	2000	38
and the same of th	-	and the second	M. Atchinson -		36	25 ,,	-	-		-	28
The second second	-		E. Harland -	- 1	1/4	25 "	- 1		sette 7		4
			A. Thyme -	-	29	25 "	-	-	1	.,	23
distribution of the last	-	Sales of Section	E. Sandy -	-	11/3	-	-	25 September	25 September		40
			W. Hickland -		3/4	-	-	27			22
		- 1000	J. Anifar -	-	8	-	- "	3 October -	3 October -	. "	24
	-	half	J. Anifar -	-	34	-	-	9	10	14.50	24
	-		M. Atchinson -	-	36	-	-	10	-		28
			C. Falkner -			25 October -			and the second	THE RESERVE OF THE PARTY OF	

<sup>\*</sup> This does not include a large number of cases of diarrhox which were so slight

NO

APPENDIX, 87

Diarrhoea and Cholera among the Soldiers' Wives and Children at Gibraltar, during the Epidemic of 1865.\*

Cubée Feet per	State of	Any N	ulsance Time	experience of Attack	ced at the	Water Suppl	y at the Time	of Attack.	How long before	General Sanitary Condition	4
Inmate in Room at the	Ventilation: "Sufficient," "Insufficient."	From "Drains." or "Gul- leys."	From "La- trines."	From "Pilthy Neigh- bour- hood."	From other Sources. !	Whence derived.	Quantity: "Sufficient," or "Insufficient."	Quality: "Good," "Clear," "Muddy," "Tasted badly."	the Attack had the affected Room been Limewashed.	of Neighbour- hood of Quarters: "Good," "Indifferent," "Bad,"	REMARKS.
Sparit ve		metan	depris-	ptunte	8 m	-	A. A.	House Varianti	1865.	01- 1	· · bulkymid
245-6	Insufficient	Yes	No	No	None	Contractor .	Insufficient	Tasted badly	1 April -	Bad	Number Continue, Harrison
395.75	ALUT			**		eductodas*	20 -	- Destroit per			
835.75	Sufficient	-			-		-				_
222.8	Insufficient	-		"	-		6 1			*	-
400'8	n letter	0 -	20	oder-ig	271		25 14	matin +0 .ed			· special resignit
365.52	mort i			"-		edustqs842	20 -	prost and		74	Desired Courses Desired
844-5	Sufficient										- ADDRESS
485.0	Insufficient		- :	-	-	60	# -	ugatim			* SHOPE OF RESE
390.75	B wincon						30 m				
20018	Sufficient						-			-	-
202	Insufficient					10	50	The state of	2 4		The state of the s
631.8	Sufficient	ю		oder to	EEE *		0 -	About 198 Living			- Interest workers
315.75	Insufficient				12 10 -		23 .	+ 2#00.ml			* AUI TOOL SAME
310	Town I			10				and the state of		-	The second desirable and
315'75	o "huson	- 0000	1000	10			0 -	tisk older			V small Amend (simple
225 336			"	"				"		"	
822.52	Sufficient			1000			-	100000000			Same application to produce
288	Insufficient		10							- "	_
288	"										
835.52	Sufficient			20		le sur 1		,,			_
300	Insufficient			-		16 August -	00 -		aparet.		
483				- 11		- 007	00 -	7. N. S.			
1456		No		n	Breakwater	0.5	te . non	OFFIC Property		-	-
560	mora 6	Yes	102 "	1000	None _		20 10		. :		
48216			7	datage	10		CC "	Chin Many	. :	-	
482.6	*hours		. 11	и_		A liegiamites		no-classif one			- I The real
835125	Sufficient Insufficient			*-	" -	" " EL	The state of	1000 at 2 year		"	
271.428	Insumetent	-	10	-	" -	" - \$1		(failed, Are)			- money a period
500-6				-	1 -		00 0	100 A 100			
271:428							1000	ACCOMPANY			- Carrie Committee
400:3						10		Van Miles			-
22018						- Orderoo a		1. Maria			- 1000
378	-	29 -		-		- status		resolventing		-	DESCRIPTION OF THE PARTY OF THE
482		> mingg	2.00	10.00				and walls			A TOTAL PARTY
272.8					- Montage	to annual to				-	not repaid to
844'5	Sufficient			-	" -	7 - 3	-	utieti/ pers	. :		- Installment
363125	Insufficient Sufficient				- Marine	Gt - 45		1000	. :	T	· classed
218:427	Insufficient	~ Many	14 (4	Day Porcel	100 11			diam'r against			· two arguital
218:427			-	11.		- Paugua US		your Minnie			· · · · · · · · · · · · · · · · · · ·
482	mark h		,,	n.	to Missings		BALL!	dilani tid mig			America
395:75	28/3/4		,,			a IK		BOULE STORY			
	1		15 7			Leghantur	-	Miled official			made and

as not to require more than a dose of castor oil or other like remedy.

E. H. BLAKE, M.D., Surgeon-Major, Royal Artillery.

Table XV.—Showing the Sanitary Condition of Affected Quarters, together with Cases and Deaths from

Occupation when the Epid	lemic appeared.			Diarr	hœa.	Chol	era.	Floor	
5,838130 olors	P III smeall	Berramill be an	io.io	1 1/4 2	VIVI 'eng	nace of	grooms an	where Attacked:	Number of
		Name of Patient.	Age.	Date	Date	Date	Date	"Ground," "Ist Floor,"	Room
Where Quartered.	Corps.			of Attack.	of Death.	of Attack.	of Death.	"2nd Floor."	where attacked
	He have	C. Zillerin, Sr. Prints.		1000		3 3200 1	Part of the last	1,50 a4	
		The state of the s				made		T I HOUSE	THE PERSON IN
Cottage, North Front	Royal Engineers .	Mrs. Bloomfield	24	-	- Ches	9 August -	11 August -	Ground	14
	All many	Eleanor Stacey	2	-	_	16	18		A STATE OF
Library Street		Alice Westacott -	1	-	-	16 September	24 September		Library Street
Married Quarters, Hargraves		Mrs. Westacott .	37	-		12 "	18 "	W. 15	3
Barracks.		May Round	31	15 September				1st Floor	7000
		Mrs. Seward	or	10 is epiculoer				184 F100F	3
		Mrs. Lockwood · ·	33	15 "	-	-	-	W. 1.15	2
Engineer Buildings		Mrs. Creighton	35	_ 0	_	17 September	_	Ground	2
Inguistr Dunnings		And Orogania	9.3			II ocpicator.			No.
Married Quarters, Hargraves Barracks.		Mrs. Drew	36	19 September	-	-	-	1st Floor	1
								10000	
No. 11 King's Bastion • •		Mrs. Angus	23	20 ,,	-	-	-		11
Sand Pitts		Mrs. Spry	36	20 ,,	_	_		Ground	Sand Pits
					1			piloso	
Library Street		Mrs. Wade	35	20 ,,	-	-	-	Ame	Library Street
Engineer Buildings		Alfred Springett .	2	-	-	23 September		2000	1
House at Lime Kiln		Mrs. Craig	33	-	_	24 ,,	-		Lime Kiln
Crutchett's Ramp • •		Mr. Hodson	30	-	-	29		2nd Floor	32
Married Quarters, Buena Vista		Sophia Batt	6	-	-	29 "	7 October -	Ground	Quarters Buena Vista.
Quarters near King's Bastion .		Mrs. Stevens	32	-	-	3 October -	3 "	1st Floor	Quarters near
						120000000000000000000000000000000000000		16:04	King's Bastion
-	-							-	
Caramata	2nd Bat, 15th Regt.	Jane Lees	40	1865.	1865.	1865.	1865.	Ground	2
Casemate	2nd hat, little hegt.	Jane Lees	40	10 August -				Ground	MI COL
	10	Ann Kelly	30	10	-	-	-		5
		Margaret O'Flaherty -	27	10	- Comple	-	-		1
		Ann Kenne	35		_ 0007	30 August •	1 September	2nd Floor	23
		Elisha Fahey • •	30	-	-	6 September	6 "	-	21
King's Bastion · · ·		Rose Temlinson	37	6 September	-	-	-	Ground	12
Casemate		Mary Ann McCormick -	37	12 ,,	-	-	-	1st Floor	4
King's Bastion • • •		Mary Walch	29	12 "	-	-	-	Ground	14
		Jane Lees • •	40	13	-	-	-	**	12
Wellington Front		Mary Smith	30	16 "	-	5	-		3
Town Range		Sarah Kenney	28	23 "	-	-	-	-	1
Casemate · · ·	-	Mary Kaveny · ·	30	26 ,,	-	-	-		1
Camp, Windmill Hill	-	Ann Boyd • •	32	9 October -	-	-	-	-	Tents
King's Bastion	-	William Moore	1	31 July -	-	-	-	-	4
North Front		William White	4/4	-	-	3 August -	3 August •	-	-
Wellington Front	-	Mary Ann Smith -	1	4 August -	29 August -	-	-	2 colon	3
North Front		Jane White	9	5	-	-	5	and Ween	- 01
Casemato		Hugh Fahey	4	20 "	19 September	180	at toward	2nd Floor	21
Wellington Front		George Smith	8		-	26 August -	26 August -	Ground	3
Town Range	. 10	John Kenney	1/4	-	-	-		and Place	22
Casemate	-	John E. Smith	3	31	2 September			2nd Floor	14
Warman Parana	-	Lewis Blane	1	31 "	3 "			1st Floor	
Town Range	*	Charlotte Smith	2	1 September				Ground	11
King's Bastion		Daniel Keane	3	6	- Comment			Ground	11
		Michael Keane John Stokes	1 2	6 "		10 Sentember	10 September		12
Committee	BLAKE ME	Frederick Kaveny	23	10 Sept 1		to septemost	10 September	2nd Floor	17
Casemate	W-montag	Margaret Stokes	6,5					Ground	12
King's Bastion	-	Praigate Cours	011					Con Country	1000
Town Rance		Charles M. Kenney	1	_		16 Sentember	-		1
Town Range Camp, Windmill Hill	-	Charles M. Kenney - Peter McKenna	1	_	-	16 September	=		1 Tents

iarrhox and Cholera among the Soldiers' Wives and Children at Gibraltar—continued.

Dubic set per	State of	Any 1	Nuisance Time	experies of Attacl	nced at the		Water Suppl	y at the Time	of Attack.	How long before	General Sanitary Condition	old podre rolangeso)
Room t the ime of ttack.	Ventilation: "Sufficient," "Insufficient."	From "Drains," or "Gulleys."	From "La- trines."	From Filthy Neigh- bour- hood."	From other Sources.	wı	sence derived.	Quantity : "Sufficient," or "Insufficient."	Quality: "Good," "Clear," "Muddy," "Tasted badiy."	the Attack had the affected Room been Limewashed.	of Neighbour- hood of Quarters: "Good," "Indifferent," "Bad,"	REMARKS.
er 600 sic feet.	Insufficient	No.	No.	No.	No.	Wel	ls North Front	Sufficient	Tasted Badly	2 Months	Bad	Arrived from England about December 1864.
-		**			-	100			-			Arrived from England on 4th October 1861.
	Sufficient			,,				Insufficient	-	3 Months	Good	Born in Gibraltar.
							-	-	-	-	-	Arrived from Corfu 10th June 1864.
	-						-	-	-	-	-	Arrived from England 5th January 1866.
,,	-	-		-							-	Arrived from Corfu 10th June 1864.
	Insufficient								-		Indifferent	
	Sufficient			, 10			-		-		Good	Arrived from England 4th October 1861.
			-						-	3½ Months	-	Native of Gibraltar.
				-		Wel	l at Sand Pits	Sufficient	Good	10		Arrived from England 4th October 1861.
-						Wel	ls North Front	Insufficient	Tasted Badly			Arrived from Corfu 10th June 1864.
									make will day		Indifferent	Born in Gibraltar,
	-	"		10							-	Arrived from Corfu 10th June 1864.
									-	3) Months	Good	
		Yes						P	and the same			Arrived from England about August 1860.
		No.	. "	-			- STATE OF	50 F	Second to come		-	Arrived from England about 5th January 1869,

# T. W. Fox, M.B., Surgeon, R.E.

000	Insufficient	None	None	None	Unknown	Tank	AND THE REAL PROPERTY.	Limited	Depositing Sediment.	3 Months	Indifferent	The state of the s
000						**				3		
00.	-			29	STI				lumothic Durch	3 ,,		
90						"		- "		3 "		_
20		-			**					3		-
00		Yes	Yes				INTERIOR IC		minimizer art sector	6 Months		THE PARTY AND
0		None	None	10						4 10		-
00	-	Yes	Yes							6		
00	. 15	-								6 .,		_
30	. 33		None							5 Months		_
90			Yes	Yes	- months				HITE MAN	6	Bad	_
90	10	None	None	None		10				4	Indifferent	_
90	Good				**	73				Never	Good	_
00	Insufficient	Yes	Yes	10			. 11.	,,	etping sensit	6 Months	Indifferent	_
50		None	None	Yes	Cemetery	Well		Sufficient		4	"	-
80		Yes		None	Unknown	Tank		Limited		6		-
50	10	None		Yes	Cemetery	Well	michiga .	Sufficient	SACTOR DESIGNATION	4		-
20			. 10	None	Unknown	Tank		Limited	-	3		_
80		Yes	- 30	34		,,		,,		6		- min remove a mark
30	,,	-	Yes	Yes			month) in a		Mary A. Pentin	6	Bad	-
20		None	None	None						3 "	Indifferent	-
20						10				3 "	10	and among being
00	10	Yes	Yes	Yes		20	. 11	n	beintieff dack	6	Bad	-
20	10		20	None						6 "	Indifferent	_
20		-		- 14						6 ,,		_
20			**			10	and the same of th	STREET, SHE SHE		6 .,		-
139		None	None							4 -		_
20		Yes	Yes			,,				6	11	_
85				Yes						6 ,,	Bad	-
180	Good	None	None	None		1			-	Never	Good	_

Table XV .- Showing the Sanitary Condition of affected Quarters, together with Cases and Deat

Occupation when the	Epidem	nic appeared.	distant.	S STORY	ole to y	Diarr	hoea.	Chol	lera.	Floor	0 9
Where Quartered.	Take to the second	Corps.	Name of Patie	mt.	Age.	Date of Attack.	Date] of Death.	Date of Attack.	Date of Death.	where Attacked: "Ground," "1st Floor," or "2nd Floor."	Number Room where att
'own Range	- In	d Bat. 15th Regt.	Ester Bosely	toris	2	1865. 18 September	1865.	1865,	1865.	1st Floor	hard on
Cing's Bastion · ·			John Keane -	Amorto	1	23	2 October -	-	-	Ground	11
own Range	-		Ester Bosely -		2	-	-	25 September	26 September	1st Floor	- 1
Designal June Margar					4	27 September	-	-	-	Ground	
asemate · · ·			Frederick Purcell		5	29	-	-	-		1
	formili	final o	Margaret Purcell		8	19 October -	-	- Fa		Fried	mal 1
Ambert and thousand							-			inabi	Refi
nena Vista Hutments -	- 86t	h Foot · ·	Mrs. Martha Byn	ne -	36	1865." #PE Smill An	1865. "	1865. 4 September	1865. 5 September	Ground	Non-com
Agend from Orth 5			Mrs. Mary O'Call:	aghan	27	kanti <u>M</u> hak s	lots _ a	28	4 _ 4		
indmill Hill Huts -	10 100	Desi .	John Rennison -	,	ń.	3 June -	5 June 1				
indmill Hill Barracks	. "		Francis Doyle		4	-	- "	20 September	21 September	1st Floor	
aval Hospital		o alleast p	Joseph M'Dermot	t -	10		- "	26	26 September		Hos Serge Qua:
Andread most harried and			James M'Dermoti		3/4	26 October -	_ +		4 40		- 30
					215						
Surgeon, B.E.	1,834	n W. Mos, 1			911						
	M.B., I		Donalities	fest	6.5		1045		- 100 CO	910-03	mat
Surgeon, ILE.	781	L W. Poz, 1	Mrs. J. Kinnibur	fect	27	1855. 1 September	1865.	1865.	1863.	h	ana L
Surgeon, IkB.	250 9503	E W. Poz, 1	Disselling	feeti gh -	100	1855. 1 September	1865.	1865.	1865.	1 10000	mal
Surgeon, ILE.	- 781	E W. Poz, 1	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Motherw	festi gh -	27 38 34	185. 1 September	- 4	1865.	4 4	нш,	ana L
unp, Windmill Hill .	- 781	E W. Poz, 1	Mrs. J. Kinnibury Mrs. C. M'Connell Mrs. W. Motherw Mrs. R. Qunken	feet :	27 38 34 26	1885. 1 September - 4 October - 18 October -		1865. 17 September	4 4	min Hill,	Te Te
amp, Windmill Hill	- 780	E W. Moz. 1	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Motherw	feet :	27 38 34	185. 1 September	- 4	1865. 17 September	4 4	up, Windmill Hill, the epidemic.	Te Te
amp, Windmill Hill	- 780	E W. Moz. 1  But shoots and a second a	Mrs. J. Kinnibury Mrs. C. M'Connell Mrs. W. Motherw Mrs. R. Qunken	feel -	27 38 34 26	1885. 1 September - 4 October - 18 October -	14 September	1865.	4 4	up, Windmill Hill, the epidemic.	Te
amp, Windmill Hill	- 781	T. W. Moz. 7 a shoots a h - 4 a shoots a a shoots	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Mothers Mrs. R. Qunken Mary Jane Mosel	feel -	27 38 34 26	1885. 1 September - 4 October - 18 October - 20 August -	14 September	1865.	4 4	up, Windmill Hill, the epidemic.	Te
amp, Windmill Hill	- 781	E W. Pox, 1  a Mostle Tan  a C. C.  a C.  a C.  a C.  b C.  c C.  d C.	Mrs. J. Kinnibury Mrs. C. M'Connell Mrs. W. Motherw Mrs. R. Qunken Mary Jane Mosely Samuel Craddock	feeth -	27 38 34 26 19	1885. 1 September - 4 October - 18 October - 20 August -	14 September	1865.	4 4	up, Windmill Hill, the epidemic.	Te
amp, Windmill Hill	- 780	E W. Pox, 1  a Mostle Tan  a C. C.  a C.  a C.  a C.  b C.  c C.  d C.	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Motherw Mrs. R. Qunken Mary Jane Mosel; Samuel Craddock Daniel Will	feeth -	27 38 34 26 39 2	1885. 1 September - 4 October - 18 October - 20 August - 3 September	14 September	1865.	4 4	up, Windmill Hill, the epidemic.	Te Te
amp, Windmill Hill -	- 781	I W. Poz. 1  a Mondo Laft  a la	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Motherw Mrs. R. Qunken Mary Jane Mosel; Samuel Craddock Daniel Will Robert Borthwick James Simple George Gunn	feeth -	27 38 34 26 19 2 1 <sub>1</sub> / <sub>2</sub> 5	1985. 1 September 4 October 18 October 20 August 3 September	14 September	1865.	4 4	up, Windmill Hill, the epidemic.	Te
amp, Windmill Hill -	- 781	Il W. 1803, 1  a Montin Laft  b a disconsiste and a disconsiste an	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Mothers Mrs. R. Qunken Mary Jane Mosel; Samuel Craddock Daniel Will Robert Borthwick James Simple George Gunn Campbell M'Calle	gh · l · rell · y · k · bester	27 38 36 26 19 2 1/4 5 2	1885. 1 September  4 October  18 October  20 August  3 September  9  11  24  4 October	14 September	1865.	18 September	hese cases occurred in Standing Camp, Windmill Hill, the regiment was encamped during the epidemic.	Te
uts, Windmill Hill	- 785	Il W. Pos, 1  a Mondo  a Mondo  c Mondo	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Motherw Mrs. R. Qunken Mary Jane Mosel; Samuel Craddock Daniel Will Robert Borthwick James Simple George Gunn Campbell M'Calla William John Ms	gh ·  rell ·  y  artin ·	27 38 34 26 19 2 1/4 5 2 3/5	1885. 1 September - 4 October - 18 October - 20 August - 3 September - 11 - 24 - 4 October -	14 September - 30 October - 9 October -	1868.  17 September	4 4	hese cases occurred in Standing Camp, Windmill Hill, the regiment was encamped during the epidemic.	Te
ump, Windmill Hill - uts, Windmill Hill - uts, Windmill Hill - uts, Windmill Hill -	- 785	I W. Poz, I  s books Laft  a laft  b laft  Some Control  S	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Motherw Mrs. R. Qunken Mary Jane Mosel; Samuel Craddock Daniel Will Robert Borthwick James Simple George Gunn Campbell M'Calle William John Mary A. Duncan	gh - i - i - i - i - i - i - i - i - i -	27 38 34 26 29 2 1/4 5 2 3/4 11 2	18%. 1 September  4 October  20 August  3 September  11   24   4 October  18 October  11   11   24   15 October	14 September - 30 October - 9 October - 9 2	1865.	18 September	up, Windmill Hill, the epidemic.	Te Te
amp, Windmill Hill  amp, Windmill Hill  amp, Windmill Hill	- 785	2 Woods and a second and a second a sec	Mrs. J. Kinnibur, Mrs. C. M'Connell Mrs. W. Motherw Mrs. R. Qunken Mary Jane Mosel; Samuel Craddock Daniel Will Robert Borthwick James Simple George Gunn Campbell M'Calla William John Ms	gh · rell · y · k · artin ·	27 38 34 26 19 2 1/4 5 2 3/5	1885. 1 September - 4 October - 18 October - 20 August - 3 September - 11 - 24 - 4 October -	14 September - 30 October - 9 October - 9 2	1868.  17 September	18 September	hese cases occurred in Standing Camp, Windmill Hill, the regiment was encamped during the epidemic.	Tes

om Diarrhea and Cholera among the Soldiers' Wives and Children at Gibraltar, &c .- continued.

nbic t per	State of	Any ?	Nuisance Time	experies of Attac	aced at the	400	Water Suppl	y at the Time	of Attack.	How long before	General Sanitary Condition	
mate toom the me of tack,	Ventilation: "Sufficient," "Insufficient,"	From Drains or "Gulleys."	From "La- trines."	From Filthy Neighbour-hood."	From other Sources.	Who	nce derived.	Quantity: "Sufficient," "Insufficient."	Quality: " Good," " Clear," " Muddy," "Tasted badly."	the Attack had the affected Room been Limewashed	of Lighbour- nood of Quarters: "Good," "Indifferent," "Bad."	REMARKS.
00	Insufficient	Yes	Yes	Yes	Unknown	Tank	- mount of	Limited	Depositing sediment.	6 Months .	Bad	- cul
30			"	None	-		* 4 1	20 - 1	ornald years	6		- mag ada
0			ano u	Yes	1011			15 - 100	dhell sand a	6		in the land to the land
-							- 6 5	22.4-	noticed words at	6		
-		None	None	None	. 1		1	1	of angent of	4	Indifferent	
, "	earn .	-			-			10	withif you w	5		* /_million
			-	-	- valut	ant	- with state of	C. G.	IRWIN, M.B	, Surgeon	, 2nd Bat	, 15th Regiment
	Sufficient	Surface drains.	No	No	None		rvoirs and oumps.	Insufficient	Quality differ- ing from the different pumps	14 Days -	Good	Absence of water for fling purposes.
+							entaño n	0 - 1	and reservoirs.	26		
10	1	No	-				20	4	· well-traff	12	-	- s miles
30							- 4		sold mo			
	Insufficient			"						16	Indifferent	Town Market and Market
											Indinerent	Insufficient ventilation
1	uor -	-	- "				0	> .	10000000	10		- " - "
	1				+1054	ola	- value or		Н. Н. Ј	ones, M.D	., Surgeon	, 86th Regiment
-			-					4 -	an Curtisian	10	-	- small beni
	Sufficient	No	No	No	No	Tank		Sufficient	Good	-	Good	Had several attacks Diarrhoea.
	-			-	-	-		-	-	-	-	
1	-	-	-		-	-				-	-	_
	Insufficient			-	OH	-		45 -4	of the particle	- 2 -	In a	Had several attacks Diarrhova.
	Sufficient	-		-	11	*		11	Dennik telia	-		This child was me weakened by an atte of Pertussis.
	-				-				-	-	-	_
	-			-					-	-	10	This child had Chro Hydrocephalus.
	-	-		20	-	*		-		-	-	_
	-				-	-				-	-	_
-										-		Sequel of Whooping Co
	**			-	-				-	-		Choleraic Diarrhosa.
		20								. 2		_
1	-		-			**				7		After Whooping Cough
										10 Days -		
					100000							

ndeed few of this class escaped slight attacks of bowel complaint. They were much exposed to atmospheric changes, and perpetually eating trash.

Table XV .- Showing the Sanitary Condition of Affected Quarters, together with Cases and Deaths

Occupation when the E	Spid	lemic appeared.	-	- Amely No year		Diagr	hora.	Chol	era.	Ploor	
Where Quartered.		Corps.		Name of Patient.	Age.	Date of Attack.	Pate of Death.	Date of Attack,	Date of Death.	Floor where Attacked: "Ground," "lat Floor," or "2nd Floor."	Number of Room where attacks
Europa Hutments -		32nd Regimen	t L. L.	Mrs. Ann E. Robinson -	28	1865. 10 October -	1865.	1865.	1865.	Ground	Sergts, Room Hut, Room, 5 1
Europa Pass		10		Mrs. Mary Alderton -	22	11 ,, -	-	-	-		14
Soldiers' Home				Mrs. Emma Cartledge -	24	-		11 October -	13 October -		
				Mrs. Jane Shooter - Mrs. Elizabeth Marchant	25 33	11 October -			-		-
Europa Pass				Mrs. Mary Robinson -	21	13	_	-	-		8
Europa Hutment				Richard F. Foster -	2	-	_	25 September	26 September		Hut. Room
Europa Pass		H 3m2	78.97	William E. Robinson -	4	9 October -	10 October -	-	-	-	8
Soldiers' Home -				Harriet Cartledge -	5	-	-	11 October -	20 October -		-
Mean of whet he best-			- Francis	Joseph Cartledge -	3	James Males of the Control of the Co	dil -	11	19		-
				James Marchant -	5	11 October -	-	-	-		_
Europa Pass				Bridget Shea	4	11	-	-	-		13
				James Balm Elizabeth Abderton -	8	11	_	Ξ	_	-	19 14
Soldiers' Home		and the same of th		Harriet Shooter .	2	n	_	_	_	- North	
					300					-	
				Jane Shooter	4	11	-				Hut. Room.
Europa Hutment		emil di l		Edward J. Barr Joseph F. Barr	3	11 October -	17 October -	12 October -	12 October -		1 2
Soldiers' Home				Clara Cartledge -	4	12	-	-	-		-
To other Dame toll		Supil			-	-		100	122	Total	Tiell
Naval Hospital -		2,28rd -		Lizzie Greenslade -	1/4	-		1865. 12 October -	1865. 13 October -	Ground	Hospital Serjeant's Quarters,
South Barracks -			-	Caroline Bennett .	27	-	-	15 " -	16 ,	2nd Floor	Married Quarters.
This shift had Circular		111	-								-
-		w.	-				4				-
		11	+			7 - 1					2 4
days O select Of the lease	-					-					-
											-

from Diarrhosa and Cholera among the Soldiers' Wives and Children at Gibraltar, &c .- continued.

Cubic	State of	Any I	Nulsance Time	experien of Attacl	ced at the	V	fater Sup	ply at the Time	of Attack.	How long before	General Sanitary Condition	
Feet per Inmate in Room at the Time of Attack.	Ventilation: "Sufficient," "Insufficient."	From "Drains." or "Gulleys."	From " La- trines."	From "Filthy Neigh- bour- hood,"	From other Sources.	Whene	e derived.	Quantity: "Sufficient" "Insufficient."	Quality: "Good," "Clear," "Muddy," "Tasted budly."	the Attack had the affected Room been Limewashed.	of Neighbour- hood of Quarters: "Good," "Indifferent," "Bad."	REMARKS.
	- Subside	100		Tion A			the In	d day's	i m min	la la		
588	Sufficient	None	None	None	None	Tanks		- Insufficient	Muddy Tasted badly	1 Month -	Good	
1213	,unit			10			10	. "		5 Weeks -	"	State of the last
335}			-	Bad Drain- age.				. "		5		melle —
\$35}					79					5		_
335}				**	.,					5		_
910			-	None						5		and
518										1 Month -	-	Total San
910		1				-	10			5 Weeks -		-
335}		-	-	Bad Drain- age.		-			-	5		as Jens —
335}			194			-			71	5		Tradit -
335}			-		-				-	5		To Vinne T
910										5		_
1213				None		30			,,	5	10	_
1213						-				5	10	- ALESS
335}			-	Bad Drain- age.	10		-			5		-
335}	-		-							5 " -	-	_
518	The last									1 Month -		T data_
518					and Dorth					1	-	-
335}	E- 10					-			2 - 10	5 Weeks -	-	in sil'I' con Vices magandus
	100							J. K. CAR	R, M.D., Su	irgeon, 32	nd Regt.	Light Infantry.
1274	Insufficient	No	No	No	No		rd in tank roof ling.		Good	3 Months	Good	The room in which the child was attacked decidedly the worst ve- tilated in the Hospital.
940	Sufficient	N		(1) w)	19				0	1 Month		This woman was attacked immediately after having been in attendance of the above-mention child. The greater part of the women as children were quarter in the upper floor of two-storied wooden have
			pos			Libit Libit		-		Parent .		in the upper floor of two-storied wooden h at Rosia, airy and we ventilated, and enjoye

B. Tydd, Surgeon, 2/23rd R.W.F.

### No. XVI.

Report and Recommendations of Special Board of Inspection on the North Front, April 1866.

To his Excellency Lieutenant-General Sir Richard Airey, K.C.B., &c. &c. &c.

The Special Board of Inspection on the North Front appointed by your Excellency, and consisting of Col. Bent, R.E., President, Dr. Rutherford, Principal Medical Officer and Inspector of Health, Asst. Comy. Genl. Crookshank, the Garrison Quartermaster, H. Macdonald, Esq., E. Roberts, Esq., R.E.D., F. Francia, Esq., Chairman of the Sanitary Commissioners, B. Carver, jun., and M. A. Pitman, Esqrs., Sanitary Commissioners, H. Stokes, Esq., Officer of Health, and Rev. Geo. Alton, Secretary to the Board, assembled according to appointment at the Sanitary Commissioner's Office on the 2d April, and decided on the day and manner of proceeding.

and decided on the day and manner of proceeding.

On the 4th April they all assembled by agreement at the North Front, and commenced their duty at the line of buildings immediately under the Rock, consisting chiefly of married quarters belonging to the Royal Engineers, and a few sheds.

The soilpit attached to the privy used in common by the occupants of these dwellings was found to be full and insufficiently covered, so that its gases were allowed to escape; the privy is out of repair; there is an entire absence of drainage, and all the slops and foul water are thrown on the open ground around, and allowed to escape by soaking into the sand.\*

Some of these buildings are also badly ventilated, but they were found generally in a cleanly state.†

Continuing their course by the Devil's Tower guardhouse they found the privy for the use of the guard, and one for the use of working parties employed at this point, in an offensive state, and without any means of drainage.‡

They then proceeded in order in a northerly direction through the line of buildings on the Eastern beach, carefully inspecting them in detail.

## Slaughter-houses.

There are two, one for the use of the government contractor, and the other for the use of civilians generally. These are stone buildings with wooden roof covered with Seville tiles; the floors are of stone flags, laid with very open joints; each house has three doors in the external walls, and two windows which are closed by shutters. The roofs are quite close and air-tight, and the windows and doors so close to the ground as to leave by far the largest part of the cubic space without ventilation.

From each building is an open semicircular drain running towards the sea, but terminating in the sand. These drains receive all the washings from the floors, including a large part of the blood and excrement of the animals slaughtered, the whole of which is absorbed in the sand at a considerable elevation above high-water mark, and left to decompose under the influence of the hot sun.

The drains are very large, about 18 inches in diameter, built of thin Spanish bricks laid in very sandy mortar, the joints of which are washed out, and which absorb large quantities of the impure substances intended to be conveyed away by the drain.

The drains,—or more correctly the open trenches which are called drains,—are all so defective in their construction that they are more generally mere ditches closed for many yards with sand at the end, where they ought to have a good clear outlet.

Water for the slaughter-houses is supplied from pumps within the walls, and probably from wells immediately below.

The pump belonging to the civil slaughter-house is so old and defective that a supply of water can only be obtained by great labour and trouble.

Adjoining each slaughter-house is an enclosed yard, the surface of which is laid with rough cobble stones, but in such a manner that it is impossible to keep it quite clean.

The civil slaughter-house has a small compartment divided off by a wall for the special use of the Jews, but it partakes of all the defects of the others.

## Tripe house and yard.

These premises, used for the preparation of tripe and the rendering of fat, consist of a low house and yard surrounded by low sheds, and are marked D 4 on annexed plan. The whole condition of these premises is so filthy as to be a disgusting nuisance.

these premises is so filthy as to be a disgusting nuisance.

Immediately outside this place, and along the beach for a considerable distance, trenches have been dug in the sands in different directions for burying bones, refuse from the tripe and slaughter-houses, and entire carcases in great numbers. The spectacle was horrible in the extreme, and the stench for yards away insupportable.

The bones so buried are exhumed periodically for exportation, and at the time of the inspection there were several large heaps of putrid remains of fleshy substances still adhering to them and in course of decomposition.

The malaria is so abominable as to have obliged persons taking exercise to diverge from the carriage line of the beach at a distance from the locality.

<sup>\* 1.</sup> The cesspit will be emptied, and no nuisance allowed to exist .- (Signed) G. Alton, Secy.

<sup>† 2.</sup> Additional ventilation has since been provided.—(Signed) G. A., Secy.

‡ 3. Reconstruction as water latrines is under consideration of Secretary of State for War when funds are available.—(Signed) G. A., Secy.

## Cattle Sheds in charge of Mr. Mateos and others.

These premises are marked F 9, F 10, F 11, and F 12 on annexed plan.

The floor of the cattle shed F 9 in charge of Mr. Mateos is below the level of the surrounding ground, and very roughly paved; the roof is altogether without ventilation, and there is very little round the sides. From this there is an open drain, not lined in any way, which runs by a sinuous line below the Eastern beach road, and terminates in the sand.

The other buildings F 10, 11, and 12 are used partly as cattle sheds or stables by private individuals, and partly as dwellings. They are also used as stores for bones, hides, hoofs, horns, and other animal refuse, of which there is a large accumulation in every possible part. At times a great number of pigs are kept in these sheds, which are also slaughtered in deference to the prejudices of the Jewish community. There exist however no suitable conveniences of any kind for slaughtering.

The sanitary defects and evils of these premises are radical, and very great.

The buildings are constructed chiefly in the form of hollow squares, the interiors of which are to a small extent open, but the sides are all roofed in. These open spaces, from which alone they receive air and light, are very small. They are all of them greatly below the level of the surrounding ground, in some instances as much as three feet, and invariably without drains.

They are therefore always flooded in wet weather, and the water which accumulates in them remains until it soaks into the sandy soil, leaving its impurities behind in the crevices and on the surface of very

roughly cobble paved floors.

#### Government Cattle Sheds.

These buildings, marked D 1 on the plan annexed, consist of a series of open quadrangles, surrounded by low roofed sheds, bounded by a close wall; one of these quadrangles is partially paved. but the other has no paving whatever. The drainage runs into the surrounding sandy soil, and its effect is seen in an extensive sort of marsh, which cannot safely be traversed in dry weather, and in wet is wholly impassable. The malaria arising therefrom is often very offensive.

At the north-west corner is an offensive privy, with a soilpit outside, which is full and running over,

and has done so for a long period.\*

## Government Mule and Mule Drivers Sheds.

These, marked B 1 and 2 and D 1 and 2 on the plan, are in as good cleanly condition as the nature and locality of the structures admit. They are, however, entirely without drainage, as what at first sight appears to be a drain is a simple ditch, much higher towards the end, where the outlet should be, than it is in the centre or at the opposite end, so that the drainage is discharged by gradually soaking into the sand.

#### Wash-houses.

These are situated at the north and north-west angle of the General Cemetery, and marked A 5 and

F 14 on the annexed plan.

They are of comparatively large dimensions, constructed of wood, and apparently old. They are used for washing the bedding of the troops. The drainage is intended to soak into the sandy soil of the isthmus, and there is no doubt that to a very great extent this is unfortunately the case; but during the wet season, when the ground is saturated with rains, and is unable to receive the large quantities discharged from them, it runs through a drain, and is collected in a large open ditch or cesspit about 50 feet long by 5 feet wide and 3½ feet deep, just inside the boundary wall of the Cemetery, where it produces an intolerable nuisance, and creates most pernicious malaria. Its condition at the time of the inspection was filthy to an extreme degree.

During the late epidemic three fatal cases of cholera occurred here, and the locality is in close

proximity to the cricket ground and the ground for rifle practice.

Part of the operation of washing is carried on outside the huts on the open ground, and all the filthy water is allowed to soak away, but frequently large stagnant pools cover the adjoining grassy surface.

## Dog Kennels belonging to the Calpe Hunt.

There is an open drain running out upon the grass, and a dirty, unpaved, and offensive yard between the keeper's house and the kennel.

#### The Gardens.

These plots of land, marked I 4 on the annexed plan, are of very great utility to the garrison, and were generally found in good order, with the exception of several stables badly paved, or without pavement and filthy. In each of the gardens, as in many places on the North Front, a large accumulation of bones was found.

The sheds and other erections on the Western beach were found in generally good order, but without

This part of the North Front is an encamping ground of troops when required by the exigencies of the service.

#### The Inner Bay and Inundation.

Part of the permanent defences of the North Front is a deep cut at the centre of the causeway, extending some distance into the Inner Bay. This excavation has become filled up with seaweed and other matter from the water, which deposit of filth decays and emits a very bad smell.

#### The Wet Ditch.

The water retained in this ditch soon becomes foetid, and emits offensive effluvia.

The Board has kept in view the convenience and necessity to the garrison and the civil population of Gibraltar of buildings at the North Front for such uses as the existing constructions are applied to. They have also made due allowance for the filthy nature of the indispensable trades or works conducted in some of them. But these considerations have only deepened their conviction that the public health imperatively requires the adoption of extensive plans of improvement, so that every possible evil and danger may be avoided in the carrying on of such services or trades as the stalling of cattle, slaughtering, tripe cleansing, &c.

### Recommendations.

Your Excellency will have gathered from the preceding statement that some radical means are

required to deal with the existing state of things, and to provide an effectual remedy.

Indeed the Board of Inspection is unanimously and strongly of opinion that nothing can effect a permanent and satisfactory improvement in the sanitary condition of the North Front short of removing all objectionable buildings upon it, and re-arranging them upon better principles on a higher level, and providing them all with good drainage and a plentiful supply of water, for all of which there are ample facilities.

This measure we earnestly recommend to your Excellency to be carried out with as little delay as possible. In accordance therewith, and to facilitate its accomplishment, we further respectfully recommend that your Excellency should cause to be prepared at once a comprehensive scheme for this, consisting of a block plan of all such buildings as are required or that may be desirable to be erected there for the use of the garrison and the civil population of Gibraltar, together with all necessary details and estimates, making provision for suitable drainage and a plentiful supply of water, together with suggestions as to the manner in which the cost of the works should be met in whole or in part.

But as this measure will require time to carry out and perfect, the Board will proceed to recommend such temporary improvements as can be effected in order to mitigate in some degree the nuisances which

they have described.

The following measures they recommend for immediate adoption before the coming hot season

sets in:

1. That persons having bones and other animal refuse stored on any part of the North Front be required to remove them forthwith, and that in future they be not allowed to accumulate in buildings above ground, or in open spaces; that the government contractor and all private dealers in cattle and slaughterers, &c. be required to deposit or otherwise dispose of them subject to regulations to be made by the Sanitary Commissioners.

2. That where bones, &c. are already buried the ground be not opened for their exhumation, except between the 1st December and 31st March, without permission in writing from the Sanitary Commis-

sioners, nor then without such permission.

That a 9-inch pipe drain be laid down from the slaughter-houses, to be run into the sea four feet below low-water mark, the floors to be made watertight, the roofs and walls to be ventilated, and good serviceable pumps to be provided.

4. That the tripe house be well ventilated, the yard repaved, and a pipe drain connected with the

main from the slaughter-houses.

5. That the private cattle sheds and other adjacent buildings be properly cleansed, and a pipe drain to be connected with the main as above, as far as the low level of these premises will admit of drainage.

6. The washing sheds we recommend to be removed forthwith, and that they be reconstructed temporarily in some more suitable locality, which will admit of proper drainage. The existing drain and cesspit to be cleaned out at once, and filled in with earth and lime.

7. That no person be allowed to keep or slaughter pigs on the North Front without written permis-

sion from the Sanitary Commissioners, and that the piggeries be frequently inspected.

8. That means be taken by the proper authority to remove the nuisance to the public occasioned by the accumulation on the strand at Bay side of filth and seaweed, and in the deep cut in the centre of

the causeway, also the wet ditch under the drawbridge at the west place of arms.

The Board of Inspection beg to state for the information of your Excellency that an application from Mr. Domingo Danino for permission to rebuild two of the sets of premises has been referred to them, but they do not feel that they can do more than report the fact, with the remark that this application may indicate one means of obtaining the object which has been submitted to your Excellency, namely, the entire re-construction of all necessary buildings on a well considered plan.

Approved and adopted by the undersigned in Gibraltar, the 23d day of May 1866, with remarks

1 to 4 at foot of pages 86 and 87.

(Signed)

GEO. BENT, Colonel, R. Engrs. W. RUTHERFORD, M.D., Dy. Inspr. Genl. ALEX. CROWDER CROOKSHANK, A.C.G. H. MACDONALD, Gn. Qr. Master. EDW. ROBERTS. FRANCIS FRANCIA, jun. BENJ. CARVER, jun. M. A. PITMAN. HORATIO STOKES, Officer of Health. GEO. ALTON, Secretary.

### No. XVII.

### CONDITION OF THE CEMETERY.

To S. Freeling, Esquire, Colonial Secretary.

Sir, Sanitary Commissioners Office, Gibraltar, 26th April 1866.

The Sanitary Commissioners have the honour to represent, for the information of His Excellency the Governor, that they have on several occasions had under their consideration the insalutary condition of the General Cemetery, resulting in part from the crowded state of one portion of it, and n part from the absence of any proper regulations for interments, and authority to enforce them.

n part from the absence of any proper regulations for interments, and authority to enforce them.

The west side has long been so full as to have made it the subject of frequent complaint that it was difficult to dig a grave without the certainty almost of cutting into two or three others. Painful and even disgusting sights are therefore often witnessed, and in consequence of the nature of the ground, being chiefly loose sand, and its little elevation above low-water level, rendering it impossible in the summer to dig lower than about five feet, and in winter from three to four feet on the average, together with other circumstances connected with the climate, the atmosphere for weeks together is charged with most offensive effluvia.

The Commissioners do not think it necessary to enlarge on this statement, as His Excellency will be sure to appreciate its importance in relation to the sanitary measures which it suggests. But they cannot withhold the expression of their sense of the danger to the public health which is now occasioned, and fearfully so during the hot months, by the friends of deceased persons assisting at their interment at such a place. It must also be a source of constant peril to those who seek recreation or exercise, whether military or civil, at the North Front.

A partial remedy for some of the existing evils might no doubt be obtained by enlarging the cemetery on the western side, but it would be only partial, and would leave untouched the defect from which the evils described have in a great measure resulted, that is to say, the absence of proper regulations for interments and authority to enforce them. The Commissioners are moreover of opinion, in which they believe His Excellency will fully concur, that only the strongest necessity ought to induce an enlargement of the cemetery, and then only after exhausting every other practicable means of relief. Indeed, it is impossible to effect any enlargement without seriously curtailing the only available space for recreation and exercise.

Under these circumstances the Commissioners unanimously and very respectfully recommend to the approval of His Excellency the Governor that the General Cemetery and the Jewish Cemetery should be vested in them as a public body, and that they should be empowered to make and alter byelaws from time to time, subject to the approval of the Governor, for the proper preservation of the ground and the regulation of interments. A small fee on every interment would enable them, by the application of suitable methods, to provide for many years to come good, sufficient, and safe means of interment for the dead, without danger and without offence to the living.

I have, &c. (Signed) Gro. Alton, Secretary.

## No. XVIII.

STATE OF VACCINATION IN DISTRICTS 25 and 27, GIBRALTAR.

Districts.	Said to have been vaccinated, and hitherto not to have had Smallpox.	Not vaccinated, and said hitherto not to have had Smallpox.	Have had Smallpox.	Total Number of Children under 16 Years of Age.
25	180	63	156	399
- 27	161	44	154	359
	341	107	310	758

(Signed)

F. Solly Flood, Police Magistrate.

Gibraltar, 19th October 1866.

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Table XIX.—Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar on account of the occurrence of Cholera in Ports or Countries whence such Ships cleared, between 1st January 1865 and 30th September 1866.

2000						1-1	
Date of Arrival at Gibraltar.	Name of Ship.	Ton- nage.	Port whence cleared from.	Number of Days Quarantine at Gibraltar.	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Cholera which broke out on board while in Quarantine,	REMARKS.
1865. June 26	Rhone	983	Alexandria, Malta -	None; sailed in quarantine.	None. (Not admitted at	Cases. Deaths.	Has a foul bill of health from Alexan- dria for cholera. Two deaths on the
28	Italian	1500	Do, do, -	Do. do	Malta.) Do	that they have of	passage from Alexandria to Malta. Has a foul bill of health from Alexan-
July 1	Tarifa	1458	Alexandria, Malta, and Marseilles,	Do. do	esultaturror:	edand for Jo cam	dria for cholera.  Has a foul bill of health from Alexandria for cholera. Late master died
	on it less inc	0.00	Amorphit to Joseph		as to have t	long been so for	after leaving Alexandria. Has three men sick; two with bowel complaint. Has a foul bill of health from Alexan-
5	Danube	1070	Alexandria, Malta - Do. do	Do. do	Rea witnesse	s are therefore s	dris.  Had two deaths from cholera on the
	ar side soly		american chert		in nestavale	and, and the title	passage. Arrived with several cases of diarrhora and one of dysentery.
6	Morocco Gibraltar Lighter.	1207	Do. do	Do. do Seven	ands submit	dies emalled of	With a foul bill of health from Alexan- dria.  Placed in quarantine, having received
	No. 41.	1				el statisti tore als se	cargo of the above vessel "Str. Mo- rocco."
6	Syria	1970	Alexandria, Malta - Gibraltar vessel at	None; sailed in quarantine. Seven	olation to t	importance in	Placed in quarantine, having received
6	Victoria	586	anchor in the bay. Alexandria, Malta,	None; sailed in	None. (Ordered	od to notowner	three passengers from the "Syria."
	diction in mi	0.00	Malaga.	quarantine.	away at Ma- lagn.)	es a vel cold hand	One of the passengers died on the pas- sage from Alexandria to Malta, and another immediately after landing at the Lazaretto at Malta.
9	Ionia Dalmatian	943 1692	Alexandria, Malta - Do, do	Do, do, -	inding order	to built he same to	With a foul bill of health for cholera from Alexandria. Had a death on
10	Grecian	1555	Do, do, -	Do. do	Alitrag vin	on the world be-	board on 3rd instant. Landed a sick man at the Laxarctio al Malta. With foul bill of health from Alexan- dria. Landed a sick man at the Laxarctio at Malta.
14	Luxor	1212	Do, do, -	Do. do	rem. The C	soming at this	Lazaretto at Malta.  Foul bill of health from Alexandria.
	abul deller	Ca in	sur aldantomy z	ing every oth	niter exhium	who mid then only	Master states that a lady passenger died, on passage to Gibraltar, of dy- sentery.
15 17	Crimean Nyanza	1002 1481	Do. do	Do. do			Malta's bill of health of 12th instant states that there are some cases of
	and a second		Triugion gran ha	The second speed	anniasioners.	appliances the Co	sporadic cholera there. A passenger died on 9th instant from cholera
29	Victoria	160	Gibraltar; vessel at anchor in the bay. Alexandria	None; sailed in	odr refr be	rebut offing an	Placed in quarantine, having received a passenger from the "Nyazza." Left Alexandria before the cholera
21	Sahara	1073	Alexandria, Malta	quarantine.	odt to lever	ega ndt of fronts	Foul bills of health from Alexandria
21	Palikari	891	Alexandria	Do. do	Derry Verrin St	shirone of also	and Malta for cholers.  Foul bill of health for cholers.
23 23 24	Tiber Taumalipas H.M.S. Wanderer	335	Alexandria, Malta - Do. do Malta, Carthagena -	Do. do Do. do	Not admitted at	the hone equals a	Foul bills of health for cholera.  Do. do.
25 26	Dido	1125 615	Alexandria, Malta - Do. do	Do. do Do. do	Carthagena.	1: : :	Foul bills of health for cholers, Do. do.
28 31	Hector · · · Atlantic · ·	1295 1111	Alexandria, Malta	Do. do Do. do	1 : :	1 1 1	Foul bill of health from Alexandria.  Has foul bills of health from Alexan-
							dria and Malta. Landed a sick man at the Lazaretto of Malta. A man died on board on 27th instant.
Aug. 31	Delta Victoria	1019 44	Do. do Gibraltar; vessel at anchor in the bay.	Do. do.	30 : :	: : :	With foul bills of health, Placed in quarantine for receiving one passenger from the above steamer "Delta."
3	Milan	736	Alexandria, Malta -	None; sailed in	SUCCESTAN	Service View	"Delta." With foul bills of health for cholern.
4 5	Ceylon · · · Poonah · · ·	1374 1477	Do. do	Do. do Do. do	: : :	: : :	Do. do.
5	Giacomo	250	Gibraltar: vessel at anchor in the bay.	Seven	10% · .	None. None.	Placed in quarantine, having received two passengers from the "Possah."
6	Calpe Gibraltar Lighter.	20	Trieste, Alexandria, Malta. At anchor in port	None; sailed in quarantine, Seven -	obid arrela	None. None.	With foul bills of health from Alexan- dria and Malta.  Received the cargo of the above steamer
9	No. 41. Palestine	906	Smyrna, Malta	None; sailed in			"Calpe," With foul bills of health for cholera
15	French Govern- ment steamer		Marseilles, Valencia, Malacra,	Do. do	Not admitted at Valencia nor		from Smyrna and Malta.  Foul bill of health for cholera from Marseilles.
16	Dix Decembre. Ripon	1398	Alexandria, Malta -	Do, do	Malaga.		With foul bills of health for cholera.
16	Victoria	287	Gibraltar vessel at anchor in bay, Alexandria	None: sailed in	101	None. None.	Placed in quarantine, having received two passengers from the "Ripon." Foul bill of health. Has a man sick.
19	Kedar	1212	Alexandria, Malta -	Quarantine. Do. do			Foul bills of health for cholers.
20 21 20	Ella Constance -	1436 422 145	Do. do	Do, do, -	1 : /*		Do, do, Do, do, Poul bill of health for abelow
20	Rhone	1770	Smyrna Alexandria, Malta	Do. do	: : :	1 1 1	Foul bill of health for cholers.  Has foul bills of health from Alexandria and Malta. Had a death on the
22	Cairo	995	Kustendjie, Constan- tinople, Malta.	Do, do		tober 1666.	passage to Malta.  With foul bills of health for cholera from Constantinople and Malta, dated
23	Euxine	720	Alexandria, Malta -	Do. do			11th and 16th instant.  Foul bills of health from Alexandria and Malta.
24 24	Bodotria General Sale -	151 337	Smyrna Alexandria	Do. do	: : :		Has a foul bill of health for cholera. Foul bill of health for cholera.
24 25 26	Forest Queen Canada Jarrow	288 995 414	Marseilles Alexandria Alexandria, Malta	Do. do Do. do Do. do	1 : :		Has a foul bill of health for cholera.  Brings foul bill of health for cholera.  Brings foul bills of health for cholera.
27 27	Redentore	199 987	Sulina, Constantinople Alexandria, Malta -	Do, do, •			With a foul bill of health for cholers. Foul bills of health for cholers.
27 27	Saida Peru	1261	Do. do	Do. do	: : :	1 : . :	Do, do, do,
27 27	Victoria	1	Gibraltar; vessel at anchor in the bay. Sulina, Constantineple	Seven None; sailed in		None. None.	Do. do, Foul bill of health from Constanti-
Aug. 27	Witch	1	Alexandria	quarantine. None; sailed in			nople. Has a foul bill of health for cholera.
28	Woodsken -	312	Constantinople -	Do. do.		1	Do, do.

Table XIX.—Return showing the Number of Snips, &c. placed in Quarantine in the Port of Gibraltar, &c.—continued.

1 2016	AIA.—Retur	II SHOW	ing the reamoer of	ismps, e.e. pia	ced in Charac	Time in the 2 of t of	Gibraitar, &c.—committee.
Date of Arrival at Gibraltar.	Name of Ship.	Ton- nage.	Port whence cleared from,	Number of Days Quarantine at Gibraltar.	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Cholera which broke out on board while in Quarantine.	REMARKS.
1865, Aug. 28	Livinstone	255	Alexandria	None; sailed in		Cases. Denths.	Has a foul bill of health for cholera.
28	St. Angelo -	318	Odessa, Censtantinople	quarantine. Do. do.			Has a foul bill of health from Constan- tinople,
28 28 28 28	Andonucio Prince of Wales - Hawk	185 191 130	Do. do Alexandria, Malta - Galatz, Constantinople	Do. do Do. do Do. do	:::::::::::::::::::::::::::::::::::::::		Do. do. Brings foul bill of healths for cholers. Has foul bill of health from Constan-
28 28	Norfolk Hero - Luchino -	157 537	Smyrna Odessa, Constantinople	Do. do	im imi	1 1 1	tinople, Has a foul bill of health from Smyrna. Has foul bill of health from Constanti-
28	Margaret	214	Taganrog, Constanti-	Do. do			nople. Do. do.
29 29	Athenian Forest Fairy -	344 91	nople. Odessa, Constantinople Smyrna	Do. do	: : :	1.01.01	Do. do. Has foul bill of health from Suavress.
30	Lauguedoc	329	Marseilles	Five	13.2	None. None.	Has a foul bill of health from Mar- scilles.
31	Reine Margarite	296	Marseilles -	None; sailed in quarantine.	Name and a	distance for large.	Erings a clean bill of health of the 4th instant; but sailed on 9th, one day after cholera was noted on bills of health.
31 31	Atlas Colleen Bawn	1219 281	Alexandria, Malta - Taganrog, Constanti-	Do. do	:4:	- Lept Someth	Brings foul bills of health for cholera. Foul bill of health from Constanti-
. 31	Henry and Dora -	117	Tople. Valencia	Do. do		Agin, Organización	nople. With foul bill of health for cholera of
Sept. 1	Pauline	236	Kustendjie, Constan-	Do. do		Townson Comments	18th instant. With foul bill of health from Constantinople,
1	Bolina	313	tinople, Taganrog, Constanti- nople.	Do. do	Top Top 1	dynamical Committee	Do, do,
1	Solitario	184	Kustendjie, Constan- tinople.	Do. do			Do. do.
1 2	Millbank · · · · Danube · · ·	547 940	Alexandria, Malta -	Do. do	: : :		Has foul bills of health. With foul bill of health for cholcra.
2	Mary Ann · · · · · · · · · · · · · · · · · ·	509	Sulina, Constantinople, Malta. Alexandria	Do. do			With foul bill of health for cholem. Has foul bills of health from Constan- tinople and Malta. Has foul bill of health from cholem.
3	Samaunt	2370	Alexandria, Mahon, Tangier.	Not admitted, Sailed in qua-	Performed qua- rantine at Ma-		Placed in quarantine, having brought 100 Hadjis, The "Samaunt" made
		ore.		rantine. And	hon; not ad- mitted at Tan-	unknown by master	24th instant, and buried the dead at
availabre	HITTORY HATTER	Spill W		1865.	gier.	All II amend	sea. Went to Mogadore to land the Hadjis.
6	Hannah	1019	Galatz, Constantinople Alexandria, Malta	Quarantine.  Do, do,		and of all referen	With a foul bill of health from Constan- tinople.  Brings foul bills of health for choicen.
. 6	Florida	1451	Kustendjie, Constan- tinople.	Do. do	1 11	William Bull.	With a foul bill of health from Constan- tinople.
7 9	Heckln Jane Duncan -	1213 418	Alexandria, Malta - Odessa, Constantinople	Do. do	1 1 1	-11	Has foul bills of health for cholers. Brings a foul bill of health from Con-
.9	Demetrius .	277	Alexandria, Malta -	Do. do			stantinople, Foul bills of health from Alexandria and Malta.
- 11	Ipswich	234	Galatz, Constantinople	Do. do			Mate died on the passage. Brings toul bill of health from Constantinople.
11	Teresina · ·	246	Sulina, Constantinople	Do. do	7 1 10	100 00 00 00 00	Foul bill of health from Consutatinople, Arrived with master sick, Foul bill of health from Constanti-
- 11	Ester · · ·	380	Do. do	Do. do	L Index cook	- migt also mit.	1 timonlo.
11	Giusto	302	Damietta, Larnica	Do. do	The same of	e ektematik	Foul bill of health for cholera from Larnica (Cyprus). Two men died on the passage.
12 12	Thebes Heroine	1732 435	Alexandria, Malta - Kustendjie, Constan- tinople.	Do. do	:4:4:	- Salati Salami S	Foul bills of health for cholers.  Foul bill of health from Constanti- nople.
13 13 14	Mahomet Said - Stromboli - Egyptian Govern-	659 —	Odessa Cephalonia, Malta Alexandria, Malta	Do. do Do. do	: 17	98783	Foul bill of health from Malta, Foul bills of health for choicers.
16	ment steamer Vectis, Adalia	1022	Alexandria, Malta -	Do. do	California (1989)	and the second	Do, do,
16 16	Ceylon	1374	Do. do Gibraltar: vessel at	Do. do	1 1 1 1	None. None.	Do. do.
17	Morocco	1267	anchor in bay. Smyrna	None: sailed in		- Indiputed	Billion of the State of
17	Gustav Pastor -	484	Taganrog, Constanti-	Do. do		At unbrief in log.	Foul bill of health for cholera.  Foul bill of Health from Constantinople.
17	Peruvian	1763 82	nople. Alexandrin Seville	Do. do		::	Foul bill of health for cholers.  Do. do.
18 20	Luxor Alegeria	1212 82	Alexandria, Malta - Seville, Cadiz -	Do. do	Not admitted at		Foul bills of health for cholers. Foul bill of health from Seville.
21	Fairfax	170	Barcelonn, Malaga -	Do. do.	Cadiz. Not admitted at		Foul bills of health from Earcelona.
23 24	Dessouk · · · · Melita · · · ·	1063 853	Alexandria, Malta Constantinople,Smyrna Malta.	Do. do.	Malaga.	attalit Andreas A	Brings foul bills of health. Foul bill of health for cholcon.
25 26	Rehera Gambia	1143 929	Alexandria, Malta . Alexandria .	Do. do	: : :	1:3:2:	Do. do. Foul bill of health for cholcra.
26 26	Salamander - Nyanza	212 1481	Volo, Malta Alexandria, Malta	Do. do.	: : : : :	100000000000000000000000000000000000000	Foul bill of health from Malta. Foul bills of health,
29 29 Sept. 30	Achilles	2.00	Alexandria Alexandria, Malta	Do. do.  None; sailed in			Foul bill of health, Do, do, With foul bills of health for shelens
30	Sahara	1073	Do. do	None; sailed in quarantine. Do. do.	2 3	Sulley Controlled	With foul bills of health for cholera.  Do. do.
Oct. 3	Massilia Charente Gazelle Meshod -	1003 321 127	Do. do Marseilles Gibraltar : vessel at	Do. do. Do. do.		None. None.	Do. do. Foul bill of health. Placed in foundatine for five days.
10 1106	Samanut	2078	nnchor in bay.  Mogadore	Sailed in quaran-	Not admitted a	Unknown. Two on	having received cargo of "Str. Charente," One of the crew died in Mogadore Roads
and) mon	constact the f	Today.	Sens. News	tine, but re-	Mogadore, but	t 15th and 17th of	of fever. The "Samanut" ordered away by Gibraltar Board of Health.
	and the state of t	The same		15 days.	Hadjis at Mo gadore Island then to per form 20 days		Vide previous arrival on 3,9,65,
6	Palestine	936	Smyrns, Malta	None; sailed in	quarantine.	to be the second to the	Foul bills of health for cholera.
6	Christine	600	Alexandria, Malta -	Quarantine. Do. do.	Total Comment		Do, do.
Semistry	Emmanuel ct Blanche.	178	Odessa, Constantinople Carthagens.	Do. do	Not admitted at Carthagena.	ab all	Foul bill of health from Constantinople.
9	Union -	1419	Alexandrii, Malta Marseilles	Do. do.	lab 20%	1: : : : :	Foul bill of health for cholera. Foul bill of health for cholera.

Table XIX .- Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar, &c. -continued.

Table	XIX.—Return	show	ing the Number of	Snips, &c. pan	ced in Quarac	tine in the 2 or o	Giorattar, ce.—commuea.
Date of Arrival at Gibraltar.	Name of Ship.	Ton- nage.	Port whence cleared from.	Number of Days Quarautine at Gibraltar,	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Cholera which broke out on board while in Quarantine.	REMARKS.
1865. Oct. 10	Artic Hero .	355	Sulina, Constantinople	None; sailed in quarantine.		Cases. Deaths.	Foul bill of health from Constantinople.
11 11	Calpe Scadrift	1134 375	Alexandria, Malta - Kustendjie, Constan- tinople.	Do. do Do. do	: : :	+ : :	Foul bills of health for Cholers. Foul bill of health from Constantinople.
11 13 13	Ada Elisa · · · · · · · · · · · · · · · · · · ·	275 82 554	Sulinn, Constantinople Seville Alexandria, Malta,	Do. do Do. do	: : :	1 1 1	Poul bill of health from Seville. Foul bills of health for cholers.
14 16	Hawthorns Syrian	575 1014 1458	Carthagena. Patras, Carthagena. Alexandria, Malta. Do. do.	Do. do. • Do. do. • Do. do. •	: : :	1 1 1	Foul bill of health from Carthagens, Foul bills of health for cholers, Do. do.
15 16	Tarifa Isis Arabian	1436 1695	Do. do	Do. do	: : :		Do, do,
16 16 16	La Plata Roma	1005	Smyroa, Malta · · · Alexandria · ·	Do. do	: : :	1 1 1	Do, do, Foul bill of health for cholera,
16 16	Poonnh St. Nicholas	1477	Alexandria, Malta - Gibraltar: vessel at anchor in bay.	Do. do. · Seven ·	-	None. None.	Foul bill of health for cholers.  Received two passengers from the Poorah, and was admitted to pra-
20	Sterling	168	Smyrna	None; sailed in quarantine. Do. do.	4.4		tique after seven days quarantine. Foul bill for health. Foul bills for health.
20 23 23	Ripon	1295 1398 377	Alexandria, Malta Alexandria, Malta Sulina, Constantinople	Do. do Do. do			Has foul bills of health for cholera.  A foul bill of health from Constanti- nople.
23 23	Argus Waterhaven -	633 293	Do. do. Tagnnrog, Constanti- pople.	Do. do	10101	: : :	Do. do. do.
23 23	Romano C	532 220	Odessa, Constantinople Kustendjie, Constan- tinople, Catamia.	Do, do, -	Not admitted at Catania.	4	Do, do, do,
24	Acastus	447 273	Do. do.	Do. do	1 1-11		Do. do. A foul bill of health from Marseilles.
21	Gibralter Hulk No. 28.	169	Anchored in hay . •	None; salled in	1.0.5	None. None.	Placed in quarantine for receiving cargo of above steamer "Adele," and was admitted to pratique after five days quarantine. Foul bill of health for cholera.
. 26	Capitole	344	Manager	quarantine.		1	Do, do.
24 25	Napoli Syrin	1425	Alexandria Southampton Sourras, Malta	Do. do			With a foul bill of health for cholers, Do,
25 25	Arab	1555	Gibraltar; steamer at anchor in the bay.	Five		None. None.	Placed in quarantine for receiving three passengers arrived from Southampton per "Syria;" was admitted to pra- tique after five days quarantine.
25	Belle Maria -	105	Was at anchor in bay	Five · · ·		None. None.	tique after five days quarantine.  Received two passengers and cargo of do, steamer "Syria."
25	H.M.S. Supply -	-	Malin	None; sailed in quarantine.		A CHARLEST AND AND	
26	Brenda	601	Constantinople, Smyrna, Malta.	Do. do.	46 . 300	Years Name	Foul bill of health from Malta.
96	Ottoman Corvette, Ismir.	-	Malta, Palma · ·	Five.	THE SHEET	None. None.	Not admitted at Palma (Majorca). Got practique here after five days
26	Dock Yard Tank -	-	At anchor in bay .	Do		None. None.	quarantine.  Received cargo and two passengers from H.M.S. "Supply," and got pra- tique after five days quarantine.
23	Persian · ·	1770	Alexandria, Malta -	None; sailed in quarantine.	40 400	Control of the last	Foul bill of health from Malta.
25 25 29	Ephesus - Lizzy Garrow - Tanjore -		Alexandria Smyrns Alexandria, Malta	Do, do, Do, do,	9 8		Foul bill of health from Alexandria. Foul bill of health from Smyrna. Clean bill of health from Alexandria of 20th inst. Foul bill of health from
29	Grecian	1555	Arvived at this port, and left on 25th inst., and now puts back,	Five -	14.4	None. None.	Malta. Was admitted to pratique.
30	Nueva Dolores	133	having broken down. Barcelona	None; sniled ir quarantine.		- sing sense)	From a foul port for cholera.
Nov. 31	Orontes - Science -	588 304	Smyrna, Malta Kustendjie, Constan- tinople.	Do. do. Do. do.	: : : : : :	: : : :	From foul ports for cholera. Constantinople, foul port for cholera.
3 3	Massilia Gibraltar Hulk (2	1033	Southampton At anchor in bay -	Do. do.	: :		Southampton, foul port for cholern. Beceived goods arrived per "Massilis," and also 15 passengers. Got pra- tique after performing five days
Nov. 3	Rhone -	943	Alexandria, Malta •	None; sailed in quarantine.			quarantine. From a foul port (Malta).
3		1014	Do, do,	Do. do.	: : :		Do, do. From a foul port for cholera.
5	Marve -	278	Marseilles	Five . None; sailed is		Nome. Name.	From a foul port for cholera. Got pratique after five days quarantine, Malta, foul port for cholera,
		- 995	Do. do.	Do. do.			Do. do.
2	Atlas .	1943	Do. do. Smyrsa, Malta	Do, do.			Do. do. Smyrna and Malta, foul ports.
	Olympus -	- 578 - 1219 m 350	Patras, Algiers Patras, Malta	Do. do.			Algiers, foul port for cholers.  Malta, foul port for cholers.  Constantingula foul port for cholers.
	Valetta .	- 1997	Odessa, Constantinopl Trieste Marseilles	Do. do.			Constantinople, foul port for cholera. Trieste, foul port for cholera. Marseilles, foul port for cholera.
1	Dolphin .	279	Sulina, Constantinoph Berdianski, Constan	e Do. do.		None. None.	Constantinople, foul port for cholera. Constantinople, foul port for cholera.
		- 286	tinople, Nicolaief -	None; sailed i	n		Vessel got pratique here. Constantinople, a foul port.
10	Hero .	- 365	Kustendjie -	Quarantine, Do, do,			Do. do.
11	W 11 75 1	- 1961	Alexandria, Malta Was at anchor in port	Do. do.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	None, None.	Alexandria and Malta, foul ports for cholera. Received four passengers from the
11	Contraction of	. 370		Total mediants	-	Money Money	"Pern." Got pratique here after five days quarantine. Both places foul for cholera.
11	Italian -	1500	Alexandria, Malta	Do. do.		. Name	Do. do.
1:	1	376	gard ult., and now put back.			None. None.	Was admitted to pratique.  Constantinople, foul port for cholera.
1:	STATE OF THE PARTY	212	Do. do.	- Quarantine. Do, do.		announce	Do. do.
i		274		Do. do.	4		Do do.

Table XIX.—Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar, &c.—continued.

Date of Arrival at Gibraltar.	Name of Ship.	Ton- nage.	Port whence cleared from.	Number of Days Quarantine at Gibraltar.	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Cholera which broke out on board while in Quarantine.	RRMARKS.
1865. Nov. 12	Undina	200 193	Tagaurog, Constanti- nople, Galatz	None; sailed in quarantine. Do, do, -	: : :	Cases, Deaths,	Constantinople, foul port for cholera, Constantinople, foul port for cholera,
12	Mary and Eliza-	205	Nicolaief	Do, do, -	.4 .4 .	Land America	Arrived with two men sick. Constantinople, foul for cholera.
12	beth. Mary	172	Ibouil, Constantinople, Malta.	Do. do			Constantinople and Malta, foul ports.  A man died on 9th instant.
13	Zealous	292	Alexandria	Do. do			Alexandria, foul port for cholera. Has a man sick.
13	Northumberland-	296	Taganrog, Constanti- nople, Odessa, Constantinople	Do. do			Constantinople, ford port for cholera.  Do. do.
13 13	Broden Clavison - Harebell	219	Galatz, Constantinople	Do. do			Constantinople, foul port for cholera, Has a man sick.
13	Hermon Hill -	314	Taganrog, Constanti-	Do. do			Constantinople, foul port for cholera.  Do. do.
13	Grecian Queen - Conciliator -	208	Nicolaief, Constanti- nople, Alexandria	Do. do			Alexandria, foul port for cholera.
13	Bondicar	357 481	Taganrog, Constanti- nople, Patras, Malta, Almeria	Do. do			Constantinople, foul port for cholera,  Malta, a foul port for cholera,
13 16	Anne Lee	353	Taganrog, Constanti- nople.	Do. do		1 1 1 1	Constantinople, foul port for cholera.
15	Independence -	134	Galatz, Constantinople, Malta.	Do, do.			Constantinople and Malta, foul ports for cholera. Constantinople, foel port.
15	Alexander -	274	Taganrog, Constanti- mople. Leghorn, Naples -	Do, do, -			Naples, foul port for cholern.
17 17	Memnon Majestic	927 344	Alexandria, Malta - Do. do	Do. do	: : :	None. None.	From foul ports for cholcra, Alexandria and Malta foul, (Was ad- mitted).
17	Italian Frigate, Regina,		Naples, Cagliari -	Six · · ·	Not admitted at Cagliari.	Do. Do.	Naples, foul for cholera. A case of diarrhose occurred on board on the 21st instant, and she was subject to one day more quarantine, when it
17	Italian Gun Boot,		Do. do	Five		Do. Do.	was declared not to be cholern. Naples, a foul port. Vessel admitted.
17 17	Ardita. Criticado Martires	41 40	Mero-el-Kebir - Oran	Five · · ·	: : :	Do. Do. Do.	Suspected port (Algiers being fool). Suspected port, as Oran admitted from
17	Ariel	378	Sulina, Constantinople	Five		Do. Do.	Marseilles. Constantinople, foul port. Vessel ad- mitted).
18	Ostsee	283	Taganrog, Constanti- nople,	None; sailed in quarantine.			Constantinople, a foul port.
18	Christine Broke-	498	Odessa, Constantinople	Do. do			Do. do.  Both places foul for cholera.
18 19 19	Danube	1023 942 1246	Alexandria, Malta Do. do Smyrna, Malta -	Do. do Do. do Do. do			Ilo, do, Ilo, do,
22	H.M.S. Magicienne Delta		Maita Alexandria, Malta	Do. do	: : :	: :=:	Maita, foul port for cholcra, Alexandria, foul port. But a clean bill
24	Crimean	1002	Trieste, Corfu · ·	Do. do	Not admitted at Corfu.		of health from Malta. Trieste, a foul port.
27	Dalmatian	1692	Alexandria, Malta -	None; sailed in quarantine.			Alexandria (alene), a foul port.
27 28 25	Nyanga Elisa Mulan	1481 82 736	Bo, do Seville, St. Luca - Saayrna, Malta	Do. do Do. do Do. do	Not admitted at Malta.	44	Do. do. Sevide, a fool port. Smyrna, a foul port.
28	Karningen, Eliza- beth.	203	Taganrog, Constanti-	Five · ·		None. None.	Constantinople, foul for cholera. Ves- sel got pratique.
20	A. Phillips Jacques Cartin -	200	Newcastle	None; sailed in		Dp. Do.	Communicated with the above vessel,  "A. Phillips," on 28th instant, Marseilles, foul part for cholera,
20	Latona	534	Naples	Quarantine. Do. do			Naples, foul port for cholers.
Dec. 1	St. John	65	At ancher in bay	Five	4 4	None, None,	On this day the "Str. Elisa" (arrived on 28th from Seville) transhipped part cargo into the steamer "John," which was admitted on 6th instant.
1 2	Thebes	1733	Alexandria, Malta - Trieste, Malta -	None; sailed in quarantine. Do. do.	100	- instanton	Alexandria, foul port.  Trieste, foul port.
3	America	950 1125	Alexandria, Malta - Do. do	Do. do.	: : :	1 100 100 100	Alexandria, a foul port. Do. do.
3 3 5	Greek Palestine Peri	590 936 125	Smyrna, Malta Malta, Algeciras	Do. do Do. do	Not admitted at		Smyrna, a foul port.  Do. do. Sailed from Malta long before clean
			and the second second		Algeeiras (Spain).		bills of health were issued.
6	Assunta	509	At anchor in bay - Alexandria, Messina -	None; sailed in	Not admitted at	Nome. Nome.	Received a passenger (health guard) from steamer "Dido," Arrived on 3rd instant. Alexandrin, a foul port.
17	Macedon	314	Naples, Messina - Naples, Pozzueli -	Do. do	Messins. Do		Naples, a foul port.
31	Maria et Amalia - Albanian	702	Messina, Catania, and	None; salled in	3 3 :	None. None.	Both places foul for cholera. Vessel admitted here. Naples, a foul port.
1856.			Naples,	quarantine.	N. 4 - 3 - 10 - 2	the last of the la	Marie Service 6
Jan. 1	Genova	533 300	Naples, Valencia - Naples, Palermo -	Do, do, -	Valencia. Not admitted at	1 - 1	Do. do.
April 3	Edouch · ·	40	Havre, Brest, Corunna	Five	Palermo. Not admitted at		Havre and Brest, suspected ports. Vessel admitted here.
20	Albanian	702	Liverpool	None; sailed in quarantine.	Corunna.		Though bringing a clean bill of health compelled to put a quarantine of five days by representation of Spanish
20	Gibraltar Hulk, No. 14.	492	Called the "Farewell." At anchor in port.	Five		None. None.	Government.  Placed in quarantine for five days having received eargo of the steamer "Albanian," from Liverpool.
23	Adalia	1002	Liverpool	None; sailed in quarantine.			Five days quarantine imposed on ac-
24	Luxor Gibraltar Lighter,	1212	Do. do At anchor in port -	Do. do.	A CONTRACTOR OF THE PARTY OF TH	Your Your	Placed in quarantine on account of Spain. Received cargo of the above steamer
24	No. 36.				and the second	None. None.	"Luxor," and was admitted after five days quarantine.
May 24		1555	Liverpool	None; sailed in quarantine.	.0 :0 .		Clean bill of health. Placed in quaran- time on account of Spain.
196	17.			0			

Table XIX .- Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar, &c .- continued.

	o actual account	n caro	ing the remove o	a marie, act bu			Grorania, ecc.—communet.
Date of Arrival at Gibraltar.	Name of Ship.	Ton- nage.	Port whence cleared from.	Number of Days Quarantine at Gibraltar.	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Cholera which broke out on board while in Quarantine.	Renarks,
1806. May 24	Gibraltar Hulk, No. 18.	1212	Anchored in this boy	Pive		Cases. Deaths, None. None.	Placed in quarantine for five days, having received cargo from the above steamer "Grecian." Quarantine on account of Spain.
24 31	Elizabeth	139 139	Liverpool do.	Do. do	1 - 1 - 1	Do. Do. Do.	Quarantine on account of Spain. Quarantine on account of Spain, ad- mitted to pratique afterwards.
June 31	Star of the Sea Calpe	73 1134	Do, do, -	Do, do None; sailed in	: : :	Do. Do.	Do. do. Quarantine on account of Spain.
3	St. John	65	Vessel in the bay -	quarantine.		None. None.	Received cargo o the "Calpe." Got
3	Atlas	1219	Liverpool	None; sailed in			pratique after the five days quaran- tine. Quarantine on account of Spain.
3	GibraltarLighters,		Anchored in the bay -	quarantine.		None, None,	Received cargo of the "Atlas " Were
3	35, 36, 37. Arab	24	Do. do	Fire		Do. Do.	admitted to pratique.  Received a passenger of stemmer "Atlas." Was admitted to pra-
6	Chaucer	633	Liverpool, off Malaga	None; sailed in quarantine,	Not admitted at Malaga,		tique. Quarantine on account of Spain.
9 9	Lady Derby Gibraltar Hulk,	436 492	Antwerp Anchored in bay -	Do. do Seven		None, None,	Antwerp, foul port for cholera. Received cargo of the above "Lady
9	No. 14. Osiris	916	Liverpool	None; sailed in		de la constante de la constant	Derby," Got pratique after seven days quarantine. Quarantine on account of Spain.
13	Anne and Jane	139	Cardiff	quarantine. Three, and got		None. None.	Do. do.
13	Prichard. Lively Italian	164 1560	Do. do Liverpool, Lisbon -	Do, do, - Sailed in quaran-	Not admitted at	Do, Do.	Do, do, do,
14	St. John	65	At anchor in bay -	tine; none. Twenty-four	Lisbon.	None, None.	Do, do,
14 16	H.M.S. Orontes - Busy Bee	80	Poetsmouth Liverpool	Three None; sailed in	11 1 1	Do, Do,	Do, do,
16 17	Cadiz	602 1006	London	quarantine. Three None; sailed in	: : :	None. None.	Do, do do.
17	Gibraltar Hulk,	1562	At anchor in boy -	quarantine. Three, and got		None. None.	Received goods and seventeen pas-
17	No. 2. Eclat	96	Newport	Do. do.		Do. Do.	sengers of the "Avoca,"  Quarantine on account of Spain. Three days.
17	Thebes	1732	Cardiff	None; sailed in quarantine.		Salpa Opplet	Do do
17 18	Norman	601 464	Newcastle	Do. do Three, and got pratique after.	: : :	None. None.	Do, do, do,
18 18 18	Gwalia Wanderer	118 180 167	Cardiff · · · · · · · · · · · · · · · · · ·	Do. do Do. do Three, and admit-		Do, Do, Do, None,	Do, do, Do, do, Quarantine on account of Spain.
18	Lilian	117	Cardiff Liverpool	Do. do None; sailed in	: : :	Do. Do.	Do. do.
19	Vice Tone	384 115	Cardiff	quarantine. Do. do Three and admit-		None. None,	Do, do, do,
30	Sussex Maid .	182	Newport	Do. do		Do, Do,	Do. do.
19	Catherine Hodges Fairy -	97 83	Do. do. Gibraltar vessel at an- chor in bay.	Do. do. Nineteen, and ad- mitted.	10 10 1	Do, Do, Do,	Do. do. Received cargo of the "Arabian" from Liverpool.
	Norwegian Gun Boat "Nidaros."		Norway, Greenock, Tangier.	Three, and admit- ted.	Two at Tangier	Do. Do.	Quarantine on Greenock on account of Spain.
19 21 21	William Keith	99	Alloa Cardiff	Do. do	1 -1 -0	Do. Do. Do. Do.	Do, do, do, Do, do,
21	George Casson - Molly Bawn - "Genova"	154 155 300	Do, do, - Do, do, - Giasgow, Cork, Lisbon	Do. do None; sailed in	200	Do. Do. Do.	Do, do,
21	Gibraltar Lighter	20	In Port	quarantine. Three, and admit-	and and	None. None.	Do. do.  Received cargo of the "Genova."
23	No. 39. Isabella Hunter -	132	Troon and Malaga .	led. Do. do	Ordered away at	Do. Do.	England, healthy. Quarantine on ac-
23	Union	88 1263	London, Deal Southampton	Do. do None; sailed in	Malaga.	Do. Do.	Do. do.
25	Gibraltar Hulk	1362	Anchored in port -	quarantine. Three, and admit-		None. None.	Received cargo and three passengers of
25	(2). Dorothea Wright	92	Liverpool	ted. Thirteen, and ad-	.4 .4 .	Do. Do.	"Peru." Quarantine imposed on account of
25	Italian Iron Clad		London, Cherbourg -	Mone; sailed in	JE 100 .	. english	Spain. Cholera in the neighbourhood of Cher-
25	"Affondatore." Italian Frignto "Principesa Clo-		Do. do	Quarantine. Do. do	None	*	Do. do.
23	tilde." Peninsula -	347	London	Three, and admit-		None. None.	Clean bill of health. Quarantine on
26	Ghizeh	84	Liverpool	ted. None; sailed in			account of Spain. Do. do.
26 27	Coumoundores -	754 84	London Liverpool, Milford -	Quarantine. Do. do Do. do	: : :	1 1 1 1 1	Do. do.
25 28	Affines Fairy Vision -	99 388	Do. do London, Lisbon	Ten, and admitted None; sailed in	None ·	None. None.	Do, do, Do.
28	Gibraltar Lighter.		In port	quarantine. Three, and admit-	40 200	None. None.	Received cargo of "Fairy Vision" and
20	No. 63. Parana	1006	Plymouth	None; sailed in quarantine.	200 July -		Parana. Quarantine on account of Spain.
===	Berenice	574	Amsterdam, Falmouth	Do. do.		The second second	Quarantine on Falmouth on account of Spain.
July 1	Fairy Queen -	155	Swansea	Three, and ad- mitted.	2	None. None.	Quarantine on England on account of Spain,
2	Nyanza Gibraltar Hulk,	1481	Anchored in bay	None; sailed in quarantine, Three, and ad-		None, None.	Do. do.  Received three passengers of the
2	R.W.Y.C. Schooner		Plymouth	mitted. Do, do, -		Do. Do.	"Nyanza," Quarantine on account of Spain.
2	Harlequin. Napoli	486	Glasgow, Lisbon .	None: sailed in		- Die one	Quarantine on Glasgow on account of
2	Britannia	623	London	quarantine. Three, and ad- mitted.		None. None.	Spain.  Quarantine imposed on account of Spain.
2	Gibraltar Hulk, No. 10.	396	In bay · -	Do. do		Do, Do,	Received two passengers of "Nyanza."
2	Gibraltar Lighter, No. 35,	1	Do	Do. do	Addison to 1	Do. Do.	Received cargo of steamer " Napoli."

Table XIX.—Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar, &c.—continued.

Table	XIX.—Return	snow	ing the Number of	i omps, ecc. pia	cea in Quaran	time in the rort of	Gibraitar, &c.—commuea.
Date of Arrival at Gibraltar.		Ton- nage.	Port whence cleared from.	Number of Days Quarantine at Gibraltar.	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Cholera which broke out on board while in Quarantine.	REMARKS.
1866. July 2	Porest King -	146	Newport	Three, and ad-		Cases, Deaths, None, None,	Quarantine on account of Spain.
2 4 4	Glasgow Syria	250 157 1419	Newcastle	Do. do Do. do None; sailed in	1 1 1	Do, Do, Do,	Do. do. Do. do. Quarantine on both places (though healthy) on account of Spain.
104	Twelve Apostles -	127	Cardiff	quarantine, Three, and ad- mitted.	-16 -16 -	None. None.	Quarantine on account of Spain.
5	Hurrah Lord Londes-	200	Alexandria	None; sailed in- quarantine, Three, and ad-	-40 - 41 -	None. None.	Subject to five days quarantine on ac- count of Spain. Quarantine of observation on account
5	borough. Lydia Hildon	151	Cardiff	mitted, - Do, do, -		Do. Do.	of Spain. Do. do.
5 5	Sydney Jane - Harry Herbert - Christina -	177 130 692	Newcastle Cardiff	Do. do Do. do None: sailed in		Do, Do, Do.	Do, do. Do, do. Subject to ten day's quarantine on ac-
	Dear Lass -	99	Cardiff	quarantine. Three, and ad-	la l	None. None.	Quarantine of observation on account
5 5	Sylph	122 270	Newport Sulina, Constanti-	Do, do, - Pive, and admitted	· America	Do. Do.	of Spain.  Do,  Quarantine on Constantinople on ac-
5	Garibaldi	258	nople. Galatz, Constanti-	Do. do		Do. Do.	count of Spain. Do. do.
5	Hermes	221	nopie. Enos · · ·	Do. do		Do. Do.	Because she communicated with "Garibaldi,"
5	Dr. Juris Jantzen	276	Odessu, Constanti-	Do. do	1-100	Do Do. Do, Do.	Quarantine on Constantinople on ac- count of Spain.
5	Alfred	700	Sulina, -Constanti- nople, Constantinople, Malta,	None; sailed in	Ordered away		Five days quarantine on Constanti-
6	Maggir	199	Maluga, Llanelly	quarantine. Three, and ad-	at Malaga.	None. None.	nople and Malta on account of Spain. Quarantine imposed on account of
6	Wm. Thuribeck -	292	Sulina, Constanti-	mitted. None: sailed in quarantine.			Spain, Quarantine on Constantinople on ac- count of Spain,
6	Avoca	1006	Alexandria, Malta -	Do, do.		None. None.	Quarantine on both places on account of Spain.
7	New North Star - Colombo	230	In the bay Constantinople -	None; did not	10 2 27	- 1000	"Avoca," passengers of the
7	Luxor	1212	Alexandria, Malta -	anchor. None; sailed in quarantine.			Quarantine on account of Spain.
7	Celsus	298	Sulina, -Constanti-	Do. do.			Quarantine on Constantinople on ac- count of Spain.
7	Pembrokeshire Lass, Victoria	131	Cardiff	Three, and ad- mitted. Pive,and admitted	A THE PARTY OF	None, None.	Quarantine on account of Spain.  Received three passengers of the
9	Odessa	1458	Kerteh, Constanti-	None; sailed in			"Laxor." Quarantine on Constantinople on ac-
10	Delta	1019	nople, Messina. Southampton	quarantine. Do. do			count of Spain.  Quarantine of ten days imposed on account of Spain.
10	Gibraltar Hulk, No. 2. Maria Ipes Meia -	1962	In port	Ten, and admitted	o has been	None, None,	Received 13 passengers of the " Delta,"
10	St. Oswin	138	Alexandria London, Newcastle -	None; stiled in quarantine, Do, do, -	13.3.		Quarantine on account of Spain.  Do. do.
11	Ippagrifo	291	Odessa, Constanti- nople.	Do. do	a la ma	The College	Quarantine, on necount of Spain, on Constantinople,
n	Valetta	507	Glasgow, Lisbon - Belonging to the port	Do. do Three, and ad-		None, None,	Quarantine, on account of Spain, on Glasgow. Received cargo of "Valetin."
12	Alexander II	205	Stettin, Hartlepool -	Do. do		Do. Do.	Quarantine of observation on Hartle- pool on account of Spain.
13	H.M.S. Prince Consort.	DOLL	Plymouth	Do. do		Do. Do.	Quarantine of observation on presunt of Spain.
14	Supply (H.M.S.) - Plorence -	747	Weodwich, Sherrness - Newcastle -	Do, do, - None; sailed in quarantine.	1 20 201	Do. Do.	Do, do, do,
16	William III.	533	Amsterdam, Falmouth	Three, and ad- mitted.		None. None.	Quarantine of observation, on account of Spain, on Palmonth.
15	Thetis	1348	London, Lisbon - Alexandria, Malta -	None; sailed in quarantine. Do, do, -	The second	Specimen of the	Quarantine of observation, on account of Spain, on London.  Do. do,
15	New North Star -	93	Vessel in port	Five, and admitted	a Jan confi	None. None.	Received three passengers of the "China."
15	Anne Smith -	327 65	Newcastle, Sandown Bay, Isle of Wight. Vessel in port	Three, and ad- mitted, Ten, and admitted	totile russ?	Do. Do.	Quarantine on account of Spain. England healthy.  Ecceived cargo of "Thetis" from Lon-
. 16	Patriot	100	Cardiff	Three, and admitted.	all all	Do, Do,	don. Quarentine, on account of Spain, on England,
16	Ceylon	1365	Southampton	None; sailed in quarantine.			De, do.
16	II.M.S. Redpole Constance -	161	Was in port	Ten, and admitted	the level	None, None,	Received two passengers of packet "Ceylon" from Southampton. Quarantine imposed on Eurland on
17	Salem	90	Do	Three, and ad- mitted. Do. do	A Marin Land Street	Do. Do.	po, do.
17 17 17	Prancisco Padre - Ellen Owen	570 570 181	Newcastle Cardiff	Do. do Do. do Do. do	in int	Do. Do. Do.	Do. do. Do. do. Do. do.
17 17	Gwain Maid . Margaret Jones .	119	Swansea	Do. do	india ni	Do, Do,	Do, do, Do, do,
17	Norwegian Gun Boat, Alfen.	127	Algiers	Do. do Four, and admitted		Do. Do. Do.	Do. do.  Quarantine imposed, as Spain considers Algiers foul.
18	Palermo	280	Glasgow, Lisbon -	None; sailed in quarantine.	dentile grad	cooked	Quarantine on account of Spain.
18	No. 39. Demetrius	418	In the port	Three, and ad- mitted. None; sailed in	All and	None. None.	Received cargo of the above steamer "Palerino." Quarantine on account of Spain.
20	Sicilian	1014	Do	Quarantine, Do. do		and and and	Do. do.
20	Gazelle Meshod -	127	In port Glasgow	Yen, and admitted None: sailed in		None, None,	Received the eargo of the above "Sicilian."  Quarantine imposed on account of
20	Ripon	1393	Alexandria, Malta -	Quarantine. Do. do	in her man	A STATE OF THE PARTY OF THE PAR	Spain, Do, do,
21	London Palestine	994 996	Venice, Malta	Ten, and admitted None; sailed in quarantine.	elate in Ele	None. None.	Do. do. Quarantine imposed on account of Spain on Malta.
22	Gibeultar Hulk, No. 10.	376	Anchored in port -	Pive, and admitted	Albin Sey you'd	None. None.	Received one passenger of the "Palestine,"

104 APPENDIX.

Table XIX.—Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar, &c.—continued.

Date of Arrival at Gibraltar.	Name of Ship.	Ton- nage.	Port whence cleared from.	Number of Days Quarantine at Gibraltar.	Number of Duys Quagantine at any other Port before Arrival.	Number of Cases of Cholera which broke out on board while in Quarantine,	REMARKS.
1868. July 22	Gibraltar Lighter,		Anchored in port •	Five, and admitted		Cases, Deaths, None, None,	Received cargo of the "Palestine,"
22	No. 31. Midge	00	Cardiff - · ·	Three, and ad-		Do. Do.	Quarantine on account of Spain.
23	Osiris	916	Alexandria, Malta -	None; sailed in			Do. do.
23	Glandavon -	336	Odessa, Constantinople	Do. do			Quarantine, on account of Spain, on
23	Lizzie Tindle -	200	Kustendjie, Constan-	Do, do			Constantinople, Do. do.
23	Gerolamo	278	tinople. Taganrog, Constanti-	Do. do			Do, do,
24	Tanjore	1028	nople. Southampton	Do. do			Quarantine on account of Spain.
25 25	Shepherdess Gibraltar Hulk,	214	Alexandria	Do, do, Ten, and admitted	: : :	None, None,	Do. do. Received three passengers of
25	No. 28. Macedon	314	In port Glasgow, Lisbon -	None; sailed in			"Tanjore." Quarantine on account of Spain.
25	Victoria	45	In port	quarantine. Three, and ad-		None, None,	Received curgo of the "Macedon,"
97	Egyptian	1689	Liverpool	mitted. None; sailed in			Quarantine through representations of
27	St. John	65	In port · ·	quarantine. Ten, and admitted		None, None.	Spain. Received cargo of "Egyptian."
27	Tiber	560	Cardiff	None, and sailed -			Quarantine on account of the repre- sentations of Spain.
28	Robin Hood -	99	Newcastle, Plymouth	Three, and ad- mitted.		None. None.	Do, do,
28 28	Cadiz · · · Massilia · · ·	002 1053	London Alexandria, Malta	Ten, and admitted None; and sailed	: : :	Do. Do.	Do. do.
20	Ocran		Vlasrdingen · ·	in quarantine. Do, do			Vlaardingen, a foul port for cholera.
20	Test	145 154	Cardiff	Three, and ad-	1 1 1	None, None,	Quarantine imposed through repre- sentations of Spain.
29 29	Sarah Williams - Harry Russell -	217 273	Newport	Do. do	: : :	Do, Do, Do,	Do. do. Do. do.
39 39	Scotia	141 1732	Liverpool Alexandria, Malta	Ten, and admitted None; and sniled	: : :	Do. Do.	Do. do. Do.
30	Lily Green -	86	Cardiff · · ·	in quarantine. Three, and ad-		None, None,	Do, do,
50	Blue Jacket -			mitted.		Do, Do.	Do, do.
30	Gowerian	99 160	Cardiff	Do. do	: : :	Do, Do,	Do, do,
39	Jones, Brothers - Gambia	182	Newport Cardiff	Do. do.	: : :	Do. Do. Do.	Do, do,
30	Spartan	296	Glasgow, Lisbon	None; sailed in quaruntine.		V	Do. do.
30	Ann Catherine	44	Anchored in port -	Three, and ad- mitted.		None. None. Do. Do.	Received cargo of the above "Spartan."
12		110	Newcastle	Do. do.		SIBM WALL	Quarantine through representations of Spain.
30	William and Martha, St. Peter	83	Do	Do. do.	The state of the s	Do, Do,	Do do.
50	Betsey	117	Lisnelly	Ten, and admitted		Do. Do.	Linnelly, suspected (by Gibraltar au- thorities) for cholern.
50	Margaret Mary .	90	Do	Three, and ad- mitted. Do, do, -		Do. Do.	Quarantine through representations of Spain, Do. do.
39 39	Martha Lloyd - Captain Hawthorn	99 163	Newport · ·	Do. do		Do. Do.	Do. do.
July 50	Planet Julio	134	Do.	Do. do	13:3:	Do. Do.	Do do.
50	Thomas	211	Cardiff	Three, and ad- mitted.	THE PERSON	None, None, Do. Do.	Quarantine through representations of Spain, Do. do.
31	Laxy Mines -	83	Swanses	Ten, and admitted Three and ad- mitted.	4 4	Do. Do.	Do. do.
31	John Brogden -	405	Do. do	None, and sailed in quarantine.			Do. do.
31	Gustave Paster -	494	Antwerp	Do. do		4	Placed in quarantine Antwerp, being a foul port.
Aug. 1	Rob Roy	200	Taganrog Constanti-	Do. do		*******	Quarantine on account of representa- tions of Smain.
1	Poonah · ·	1477	Southampton	Do. do			Quarantine, on account of representa- tions of Spain, on Constantinople.
3 4	Lazareff Fuen Santa -	1300	Kertela, Constantinople Oran	Do. do Four, and admitted	: : :	None. None.	Do. do. Do. do.
5	Suttora	319	Sulina, Constantinople Malta,	None; sailed in quarantine.			Quarantine on, account of representa- tions of Spain, on Constantinople and
5	James	183	Newcastle	Three, and ad-		None. None.	Malta, Do, do,
6	Don Pedro -	239	Glasgow	mitted. None; sailed in			Do. do.
6	Pera	1203	Alexandria, Malta -	quarantine, Do. do	Not admitted at		Marseilles considered foul by Gibraltar
6	Spalis	area.	0 V		either port.		authorities placed in quarantine, being previously from Marseilles,
	Spakis	267	Oran, Nemours, Malaga	Do. do	Not admitted at Malaga.		Subject to four days on account of her arrival from Algeria, through the re-
6	Sumignel - Victoria	20 65	Oran	Four and admitted	: : :	None. None. Do. Do.	presentations of Spain, Do, do, Received cargo from "Don Pedro,"
6	Gibraltar Hulk,	109	In port	Three, and ad- mitted.			(eide above.)  Received cargo of "Spahis," from
6	No.28.	43	Anchored in port -	Do. do		Do. Do.	Oran.  Quarantine through representations of
7	Brenda	691	Odessa, Constantinople	None: sailed in			Spain.  Quarantine on Constantinople and
		The same	Malts.	quarantine.			Malta through representations of Spain.
7	Peninsula -	347	London · .	Ten, and admitted	tent entitle	None, None.	Quarantine on London through repre- sentations of Spain.
7	Enrique	27	Numours	Four, and admitted		Do. Do.	Quarantine on account of representa- tions of Spain,
7	Sarah Williams -	23 117	Oran In port, arrived on	Do. do Five, and admitted	: : :	Do. Do. Do.	Do. do.
7	Louisa	244	29th ultimo, Newport	Three, and ad-		Do. Do.	Placed in quarantine, having communi- cated with the above "Brenda." Quarantine on account of representa-
7	Harlington .	251	Odessa, Constantinople	mitted. None; sailed in			tion, from Spain. Quarantine on Constantinople on ac-
7	Socrates	229	Taganrog, Constanti-	quarantine. Do. do			count of representation from Spain. Do. do.
7	Emily Burnyeat -	117	nople, Gallipoli, Newport	Three, and ad-		None. None.	Quarantine on Newport on account of
7	Maria	71	Oran	mitted. Four, and admitted		Do. Do.	representations from Spain. Quarantine on Algeria on account of
8	Christine	383	Suli in, Constantinople				representations from Spain. Quarantine on Constantinople on no-
1		1		in quarantine.			count of representations from Spain.

Table XIX.-Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar, &c .- continued.

Labe	AIARetur	II SHOW	ring the rithmoer o	t omps, we pa	coa m Quant	tune in the Lore of	Gibraitar, &c.—continued.
Date of Arrival at Gibraltar.	Name of Ship.	Ton- nage.	Port whence cleared from.	Number of Days Quarantine at Gibraltar.	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Caolera which broke out on board while in Quarantine.	REMARES.
1966.	CI.	100	Cardiff	Three, and ad-		Cases, Deaths, None, None,	Operanting improved through assessed
Aug. 8	Glamorgan -	130		mitted.	Mary and a		Quarantine imposed through represen- tations of Spain.
8	Brierley Hill -	219	Nicolaef, Constanti- nople.	None; sailed in quarantine.	Carried to America	- Interests	Quarantine on Constantinople through representations of Spain.
8	Talarvor · -	133	Newcastle	Three, and ad- mitted.	hi to mit		Quarantine on Newcastle through re- presentations of Spain.
8	Adelnide	120	Girgenti	Ten, and admitted		None, None,	cated at sea with steamer " Penin-
8	No. 1	258	Taganrog, Constanti-	None; sailed in			sula," from London. Quarantine on Constantinople on ac-
8	Hutton Chaytor -	424	nopde. Newcastle, Hamburg	Do. do			count of Spain, (vide No. Quarantine on Newcastle on account
9	Peter Bahruchs -	205	Nicolsef, Constanti-	Do. do			of Spain. Quarantine on Constantinople on pc-
9	Syria	1419	nople. Southampton	Do, do,			count of Spain.  Quarantine of 10 days on account of re-
9	Mars	291	Taganrog, Constanti-	Do. do			presentations of Spain, Do. do.
9	Crimean	1003	nopde. Liverpool	Do. do.		The same of the sa	Placed under strict guard, as she brings a foul bill of health for
				Control of the Control	all all	and the same of th	enotern, dated 2nd instant.
9	Gazelle Meshod -	127	At anchor in port .	Twenty-one, and admitted.		None. None.	Received cargo of the above steamer "Crimean."
9	Africa	320	Helsingfors, Cadiz -	None; sailed in quarantine.	ordered away at Cadiz to a foul		Gibraltar board of health decided not to admit her.
10	John Bull	12	Cardiff	Three, and ad-	Lazaretto.	None, None,	Quarantine through representations of
10	Spahis	257	Cadiz, Tangier -	mitted. None: sailed in			Spain. Was previously from Oran, in quaran-
10	Glanogwen -	131	Oran · · ·	quarantine. Four, and admitted	territory of Audio-	None. None.	tine on account of Spain. Quarantine through Spain.
10	Pandora	206	Marianople, Constan- tinople,	None; sailed in quarantine.			Quarantine, through Spain, on Constan- tinople,
11	H.M.S. Supply Singla	100	Malta	- Do. do Four, and admitted	: : :	None, None,	Quarantine, through Spain, on Malta.
ii	Dockyard Tank .		(In port) · ·	Pive, and admitted	The said	Do. Do.	Received four passengers and enrgo of H.M.S. "Supply." Quarantine imposed through Spain's
12	Bella Anta.	21	Omn	Four, and admitted		Do. Do.	Quarantine imposed through Spain's representations.
12	Levant	142	Vhardingen	Twenty-one, and -admitted.		Do. Do.	Vlaardingen a foul port for cholera.
13	Theban	436	Glasgow	None; sailed in quarantine,		We allow the second	Quarantine on account of Spain.
13	A Gibraltar Lighter	20	Anchored in port -	Three, and ad- mitted.		None. None.	Received cargo of above.
14	Royal Charter - Sahara -	119	Cardiff - Alexandria, Malta -	Do. do None; sailed in	: : :	Do. Do.	Quarantine on account of Spain.  Do. do.
15	Azardoso	361	Nicolaief, Constanti-	Do. do			Quarantine, on account of Spain, on
15	French Govern-		nople. Algiers	Four, and admitted	Carrie College	None. None.	Constantinople.  Quarantine, on account of Spain, on
	ment steamer Sévrés.	is they			owner at sales		Algeria.
15 16	Santa Faz · · · · Cornubia · · ·	21 143	Mostaganem Liverpool	Do. do Sixteen, and ad-	200	Do. Do.	Do. Brings a clean bill of health from
		1	None None	mitted.	to has some	a boats	Liverpool of 27th ultimo, but cholera broke out after, wide 9th
16	Fairy Vision -	388	London, Lisbon .	None; sailed in	and the same		instant. Placed in quarantine by Gibraltar
		unit.		-quarantine.	though at latine	- manual automa	board of health, as London is a foul port for cholern.
16	St. John · ·	65	A vessel in port -	Sixteen, and ad- mitted.		None. None.	Received cargo of the above.
16	China	1348	Southampton	None; sailed in quarantine,	. 10 . 11		Quarantine by representations of Spain.
17	Kady Keny	160	Courty Lightsonia	Three, and ad-	Many or desired	None. None.	Do. do.
18	Alberta Liffey China Regina -	180	Newport Mostagnnem	Do. do Do. do Four, and admitted	100 100	Do. Do. Do.	Do. do. do.
19	Alba	314	Odessa, Constantinople	None; sailed in	· ·	Do. Do.	Do. do. Quarantine, by representations of
19	"Nyanza"	1481	Alexandria, Malta -	quarantine. + None; sailed in			Spain, on Constantinople. Placed in quarantine by representations
19	New North Star -	93	At anchor in the bay -	quarantine. Five, and admitted		NII. NII.	from Spain. Placed in quarantine for receiving eight
29	John David	1162	Antwerp, Flushing -	None; sailed in quarantine.	20 20	-	passengers ex " Nyanzn." Antwerp, foul port.
20	Delta	1019	Alexandria, Malta -	Sailed in quaran- tine,	Not admitted at either ports.		Was previously from Marseilles, foul port.
21	Spahis	287	Oran, Nemours, off Malaga,	Do. do	- Date	· · ·	Quarantine on account of Spain.
22 22	Albanian	763 1685	Do, do,	- Do. do	: : : :	: : :	Foul bill of health for cholera.  Do. do.
22	Lybia · ·	1044	Sulina, Malta	Do. do		-Charles of the second	Foul bill of health from Sulina for cholera.
22 23	Freitas, 1° · · · Odessa · ·	85 1410	Nemours London	Four, and admitted Sailed in quaran-	: 0:24:	: : : :	Quarantine on account of Spain. Foul bill of health for cholera.
24	Greatham Hall -	463	Cardiff	Three, and ad-		None. None.	Quarantine on account of Spain.
24	Lady Derby	436	Ibrail, Sulina, Con- stantinople, Malta.	mitted. Sailed in quaran-		College Alacton	Foul bill of health from Ibrail for
24	Bella Maria -	104	At anchor in the bay -	Twenty-one, and		None, None,	cholera.  Placed in quarantine for receiving cargo ex "Albanian."
. 21	Thrucian	436	Glasgow	admitted. Three, and ad-		Do, Do,	Cargo ex "Albanian." Quarantine on account of Spain.
25	Surat	1528	Southampton	mitted. Sailed in quaran-		Alaskinista Malla	Quarantine by representations from
25 25	Burna Guia	25	Oran Kustenge, Constanti-	Four, and admitted		None. None.	Spain. Do. do.
25	Atlantic	1111	nople, Malta. Alexandria, Malta	Sailed in quaran-	Malta.	Allerian artist	Quarantine by representations on Con- stantinople and Malta. Quarantine on account of Spain.
25 25	San Antonio - New North Star -	31	Oran - At anchor in the bay -	Four, and admitted Five, and admitted		None. None.	Dio. do
27	William de Derde	533	Marseilles	Sailed in quaran-	District to Secure	Do Do.	Placed in quarantine for receiving careo ex "Atlantic." Foul bill of health for cholera,
27	Cairo	995	Liverpool	tine. Do, do,	* * "	Sundrus T	Do. do.
27 28	Ceylon Galicia	1365	Alexandria, Malta London	Do. do Fifteen, and ad-		None. None.	Quarantine on account of Spain. Foul bill of health.
28	Rembrandt	267	Amsterdam, Palmouth	mitted. Sailed in quaran-		Autors Autors	Amsterdam, foul port,
30	Eagle	134	Blyth	Three, and ad-	and the second	None, None,	Quarantine on account of Spain.
	The state of the	100		mitted.	4000		

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Table XIX.—Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar, &c.—continued.

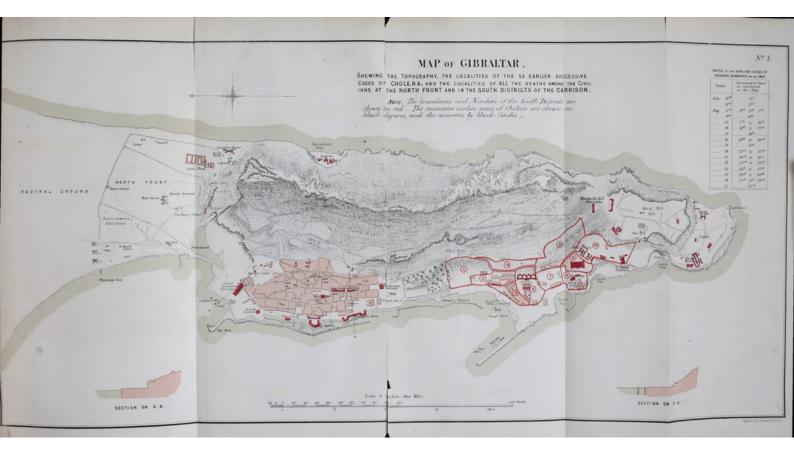
Date of Arrival at Gibraltar.	Name of Ship.	Ton- nage.	Port whence cleared from.	Number of Days Quarantine at Gibraltar.	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Cholers which broke out on board while in Quarantine.	REMARKS.
1866. Aug. 30	Salmon N. Larsing -	177 95	Algiers Cardiff	Four, and admitted Three, and ad-	: 10: 005	Cases, Deaths. None. None. Do. Do.	Quarantine on account of Spain.  Do. do.
39	Ada Letitia	108	Alexandria	mitted. Sailed in quaran- tine.			Do. do.
30	George	118	Cardiff	Three, and ad- mitted.		None. None.	Do. do.
39 39	Princess Royal • George Henry •	95 90	Do. do	Do. do.	: : :	Do. Do. Do.	Do. do. Do. do. Quarantine, on account of Spain, on
30	Fred, Weyer	134	Taganrog, Constanti- nople, Cardiff	Sailed in quaran- tine. Three		None. None.	Constantinople, Do. do.
31	Thetis · ·	426 580	London, Lisbon - Odessa, Constanti-	Sniled in quaran- tine. Do, do.	in ad	Mindead Jodestin	Foul bill of health from London.  Gibraltar Board of Health imposed
31	Samson	-	Odessa, Constanti- nople, Malta.		4 4	Sectional Contaction	16 days' quarantine on arrivals from Black Sea, those ports being sus- pected.
Sept. 31	Morecco · · · · · · · ·	1207 680	Liverpool Odessa, Constanti- nople, and Messina.	Do. do	DK - 20.	i i i i i i i i i i i i i i i i i i i	Foul bill of health. Was not admitted at Messina.
1	Massilia Gibraltar Hulk, No. 8.	1003	At anchor in the bay	Do. do.	The state of	None. None.	Placed in quarantine for receiving 13 labourers from the "Cairo," ar- rived 27th ultimo.
2	Cesarea	230	Sulina, Constantinople	Sailed in quarun- tine.	• antenny •		Sulina, foul port for cholera.
2	Rivelen	331	Taganrog, Constanti- nople.	Do. do.		None, None.	Five days quarantine on Constantinople by representation of Spain.
3	Queenstown Luis David	310 1118	Newmatle	Sailed in quaran- tine.	-	Troue. Troues	Antwerp, foul.
3 3	Tasso	598 290	Alexandria, Malta - Glasgow, Lisbon -	Do. do			Quarantine on account of Spain.
3	Gibraltar Hulk, No. 11.	287	At anchor in the bay	Three · ·		None, None, Do. Do.	Placed in quarantine for receiving 76 passengers ex "Tasso."
3	Gibraltar Hulk, No. 9. Spahis	287	Do. do. Oran, Nemours,	Sailed in quaran-			Placed in quarantine for receiving 2 passengers ex "Livorno," Not admitted at Malaga,
5	Pairy Vision -	388 761	Malaga. Marseilles	Do. do			Foul bill of health for cholera.  Do. do.
4	Tanjore Gibraltar Hulk,	1320	Alexandria; Malta At anchor in the bay	Do. do		None. None.	Quarantine on account of Spain.  Placed in quarantine for receiving cargo ex "Fairy Vision."
4	No. 28, Tauro	313	Sulina, Constantinople	Sailed in quaran-	A THE PERSON	- vine of heredent	cargo ex " Fairy Vision." Sulina, foul port.
4 5	Melost Adalia	255 1002	Segna, Malta · · · Alexandria, Malta ·	Do. do		The state of the s	Quarantine on account of Spain, Do, do,
5 6	Cadiz Carlo C.	157	Marseilles Constantinople	Fifteen Sailed in quaran-	: 40 : 10	None. None.	Foul bill of health for cholera. Quarantine on account of Spain.
6	Jeune Hortense -	128	Marseilles	Sailed in quaran-			Foul bill of health.
- T	Peresett (Russian Frigate.)	-	Villa Franca	Do. do	· 40 · 301 ·	Sennor R	Has had two cases of cholerine on the passage. Captain states that cholera
7	Reddies	97	Cardiff	Three, and ad-	- Author	None. None.	exists at Nice.
7	Lisbon · · · Spahis · ·	221 287	Glasgow Cadiz, Tangier	Do. do Sailed in quaran-		Do. Do.	Not admitted in consequence of not
	personal to open a	TO SE	None Suppl	tine.	for the posteril	A vitant le postul	having performed the established quarantine on her arrival here on the 3rd instant.
8	Iside	257	Odessa, Gallipoli	Do do		magnificati	Black Sea suspected by Gibrultar Board of Health.
8 8	Matilde	22 370	Nemours Taganrog, Constanti-	Four and admitted Sailed in quaran-		None. None.	Quarantine on account of Spain.  Do. do.
8 8	Persian	1770 65	nopde. Liverpool At anchor in the bay -	Do, do, . Fifteen, and ad-	10.2	None. None.	Foul bill of health. Placed in quarantine for receiving
8	Providence -	94	Newcastle	mitted. Three, and ad-		Do, Do.	Placed in quarantine for receiving cargo ex "Persian,"
9	Buccleugh	207	Yesk, Constantinople	mitted. Sailed in quaran- tine.		- ted and an amount of	Quarantine on account of Spain.
9	Matilda Bela- gamba.	294	Taganrog, Constanti- nople.	Do. do	Same with	Authorit sporter	Do. do.
10	Pera Tyne Queen	1261 539	Southampton Drail, Sulina, Con- stantinople, Malta,	Do, do, Do, do,	====	- attack I should	101
10 10	Carmel Minerva	125 141	and Malaga. Alexandria	Do. do	: : :	None. None,	Quarantine on account of Spain.
10	B. L., No. 674 - Geromiceo	150 321	Swansea, Plymouth - Taganrog, Constanti-	Do. Sailed in quaran-	: 0 : 11 :	Do, Do,	Quarantine on account of Spain.
10	City of Paris (R.Y.S.Steamer).	100	nople, Lisbon	Do, do, -		Legino	In consequence of representations from Spain, a quarantine of ten days was imposed on all Portugal,
11 11	Maria Anna · Novo Viagaute ·	143 32	Cardiff Tavira, Albufeira	Three	: :::	None. None. Do.	In consequence of representations from Spain, a quarantine of ten days
11	Oduard	149	Trieste, Almeria .	Fifteen		Do. Do.	was imposed on all Portugal.  Was in collision and communication with steamer "Sesostris" from Liverpool.
12	Isis	1436	Alexandria, Malta -	Sailed in quaran-		- a configuration	Quarantine on account of Spain.
12	John Fenwick -	555	Taganrog, Constanti-	Do. do	model to profit	1 100	Quarantine, on account of Spain, on Constantinople, Do, do.
12	Starbeam Banmiester Wil-	243	Sulina, Constanti- nople. Constantinople -	Do, do, -			Do. do.  Quarantine on account of Spain.
12	ton. Magdalen Esther	104	Cardiff	Three		None. None.	A STATE OF THE PARTY OF THE PAR
12	Maria Siniga - Portuna	140	Ibrail, Constantinople Vlaardingen	Sailed in quaran- tine. Ten		None. None.	Quarantine on account of Spain on Constantinople, Performed quarantine, Vlaardingen
14	Valetta	507	Glasgow	Three		Do. Do.	being suspected.
14 14 15	Isabelita St. Faz	27 30 21	Mostaganem Oran Nemours	Do. Do.	: : :	Do. Do. Do.	Quarantine on account of Spain.  Do, do, Do, do.
15	H.M.S. Cruiser - Armelin	275	Portsmouth Ibrail, Constantinople	Three Sailed in quaran-	in how well	Do. Do.	Quarantine, on account of Spain, on
		1		time.	201100		Constantinople,

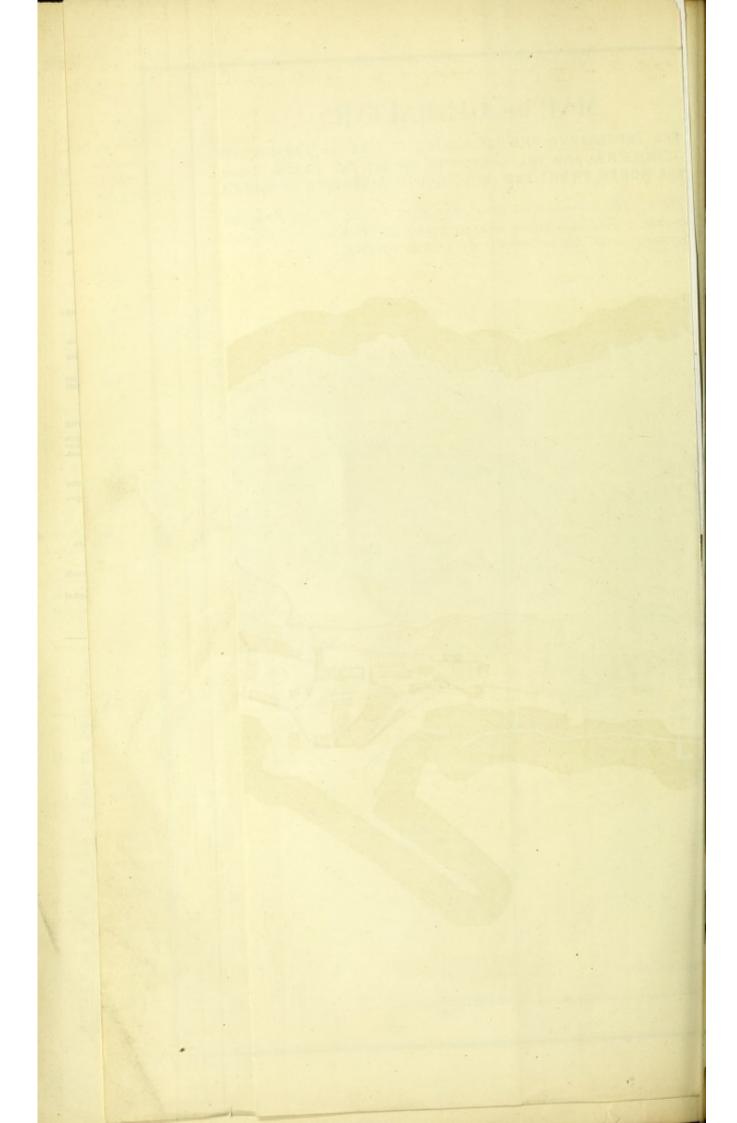
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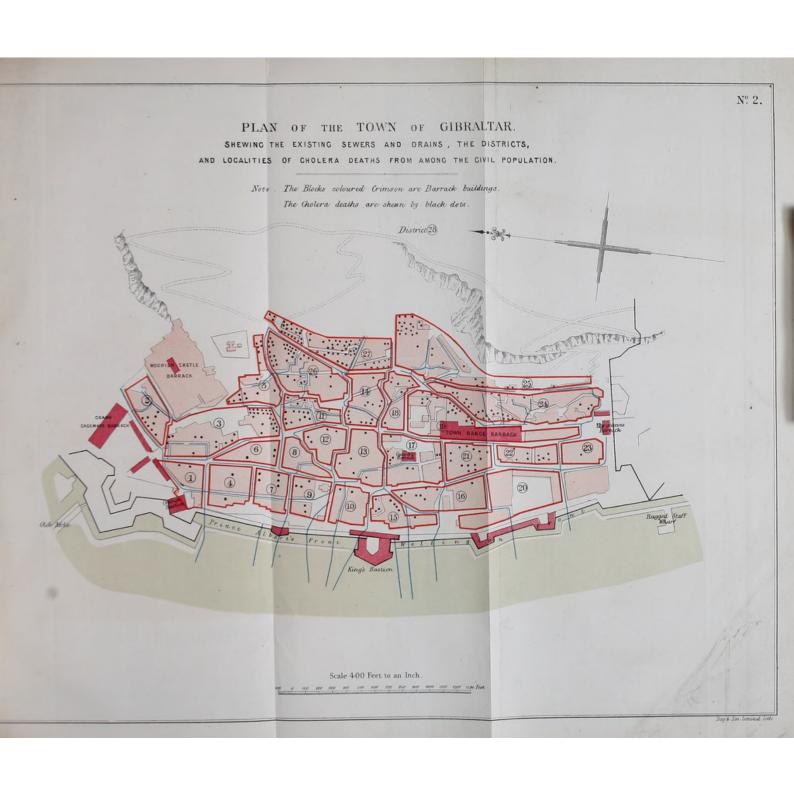
Table XIX.—Return showing the Number of Ships, &c. placed in Quarantine in the Port of Gibraltar, &c.—concluded.

The train the same of the same							
Date of Arrival at Gibraltar.	Name of Ship.	Ton- mage.	Port whence cleared from.	Number of Days Quarantine at Gibraltar.	Number of Days Quarantine at any other Port before Arrival.	Number of Cases of Cholera which broke out on board while in Quarantine.	REMARKS.
1866. Sept. 15	Syrian	1014	Liverpool	Sailed in quaran-	esculia in	Cases, Deaths.	Liverpool, foul port for cholera.
15	Georgo · ·	298	Nicolaiff, Constanti- nople.	Do. do			Black Sea, ten days quarantine im- posed by Gibraltar Board of Health, those ports being suspected.
16	Tamarac	139	Newport	Three		None, None,	those ports being suspected.
16	Guisto	339	Newcastle	Do. Ten	1 1 1	Do. Do.	Gibraltar Board of Health suspects
16	Californie	162	Vlaardingen	ren		Do, Do.	Vlaardingen.
16	Georges	166	Liverpool, Holyhead -	Fifteen		Do. Do.	Liverpool, foul port.
16	Amazone	168	Kertch, Constanti- nople.	Sailed in quaran- tine.			Quarantine, on account of Spain, from Constantinople,
16 16	Cornelia Poonah	956 1474	Amsterdam Alexandria, Malta -	Do. do	: : :	1 1 1	Foul bill of health for cholera. By representations from Spain.
16	Ceylon	1365	Southampton	Do. do.	_		
17	San Jose	96 149	Algiers Cardiff	Four	: : :	None, None, Do. Do.	By representations from Spain.
17	Spahis · ·	287	Oran, Nemours -	Four		Do. Do.	By representations from Spain.
18	Egyptian	1689	Smyran, Malta	Sailed in quaran- tine.			By representations from Spain, on Malta,
18	Kedar	1212	Cephalonia, Malta Naples	Do. do	1 1 1	: : :	Do. do. Naples, foul port for cholcra.
19	Mercury	562	Smyrna, Malta	Do. do	: : :	; ; ;	Quarantine on Malta by representa- tions of Spain.
19	Volunteer	544	London, Weymouth -	Do. do			Placed in quarantine, London being foul.
19 19	Prudoe Castle - Syria	533 1419	Middlesboro'	Do. do.	. 7 .		Subject to 15 days quarantine, being previously from Marseilles, a foul
20	Languedoc -	329	Marseilles	Fifteen		None. None.	port. Foul port.
20	Italian	1500	Liverpool	Sailed in quaran- tine.		Troub.	Do.
2)	Garibaldi	57	At anchor in the bay -	Fifteen		None. None.	Placed in quarantine for receiving curgo ex "Italian." Board of Health, Gibraltar, considers
20	Canandaigua, U.S. Sloop.		Cherbourg, Lisbon -	Sailed in quaran- tine,			Board of Health, Gibraltar, considers all France (between Nantes and Dun- kirk, inclusive) suspected for cholera.
21	Brenda	001	London, Plymouth -	Do. do			London, foul port.
22 23	Said Thetis	530 425	Liverpool Marseilles	Do. do	1 1 1		Liverpool, foul port. Foul port for cholera.
22	Gibraltar Hulk, No. 28.		At anchor in the bay -	Fifteen · ·	1 1 1	None. None.	Placed in quarantine for receiving cargo ex "Thetis."
23	Nina Regina -	21	Mostaganem	Four		Do. Do.	Quarantine on account of the repre- sentations of Spain.
23 23	Jilt	94	Liverpool, I. of Man - Marseilles	Fifteen Sailed in quaran-	: : :	Do. Do.	Liverpool, foul port. Marseilles, foul port.
24	Sultan Orkham -		Greenock, Holyhend -	Do. do.	INOT -	-	_
24	Atlas	1219	Constantinople, Smyrna, Malta,	Do. do	navit til mon	Trinted by Us	Constantinople, foul port for cholera.
25 26	Delta Palermo	289	Southampton - Glasgow	Do. do.		None. None.	
28	China	1348	Alexandria, Malta -	Sailed in quaran- tine.	Not admitted at Alexandria or Malta,		Was previously from Marseilles, which is a foul port.
. 30	Valencia	190	Havre	Do. do			Suspected port (by Gibraltar Board of Health).
39 39	Union : :	80 1111	Newcastle, Plymouth Liverpool	Three Sailed in quaran-	: : :	None. None.	Foul port for cholera.
				tine.			

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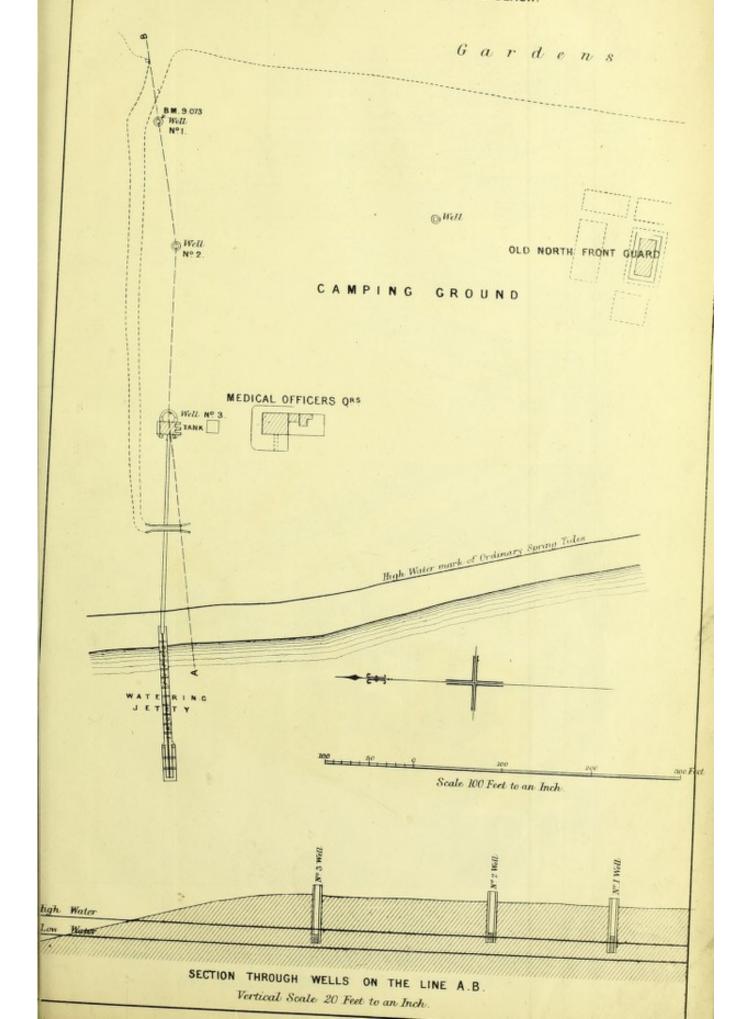


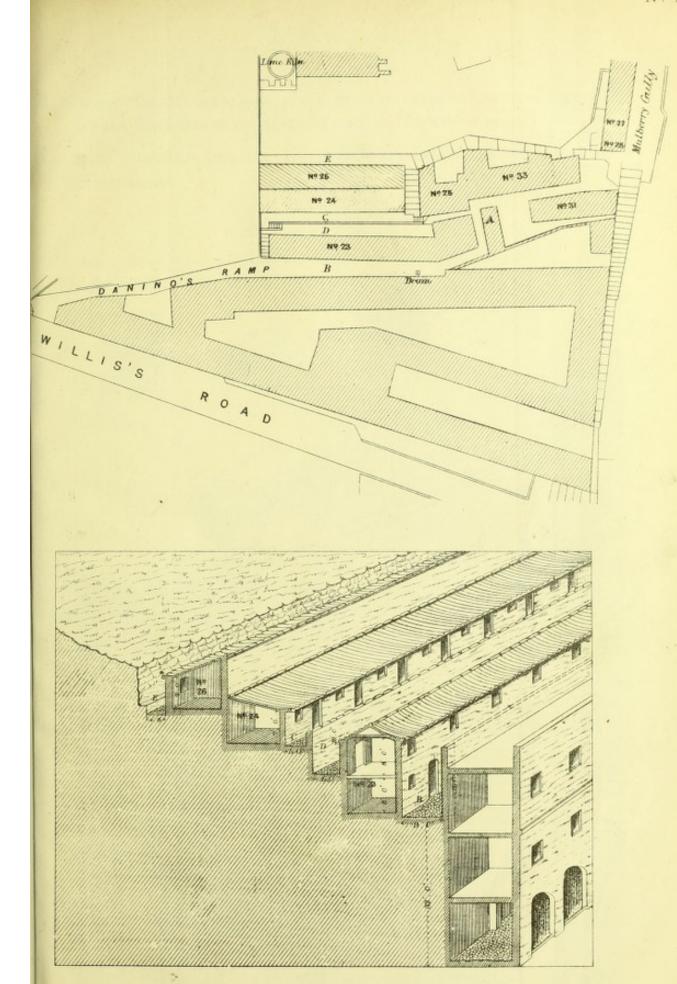
PLAN OF CAMPING GROUND,

Nº3.

(NORTH FRONT)

SHEWING THE POSITION OF THE WELLS AND BEACH.





PLAN AND SECTION OF DWELLING HOUSES WHERE CHOLERA
WAS FATAL IN DISTRICT 27 AT GIBRALTAR.



- A. TRANSVERSE SECTIONS OF SOME OF THE EXISTING SEWERS, AND A LONGITUDINAL SECTION OF A MAIN SEWER SHEWING HOW SEWER AIR FINDS ADMISSION TO THE PATIOS.
- B. BLOCK OF HOUSES IN GIBRALTAR SHEWING THE ARRANGEMENT AND RELATIVE DIMENSIONS OF THE PATIOS.

