Contributors

Egypt. Wizārat al-Ṣiḥḥah al-'Umūmīyah.

Publication/Creation

Bulâq, Cairo : Govt. Printer., [1916]

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DEPARTMENT OF PUBLIC HEALTH.

ANNUAL REPORT

FOR

1916.



of these



CAIRO.

GOVERNMENT PRESS.

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ANNUAL REPORT.

INTRODUCTORY NOTE.

In presenting this Report it is necessary to explain that it is merely a summary of the work carried out in the various Sections of the Department during the year 1916.

It is compiled for the calendar year, with the exception of the Accounts, Stores, and Engineering Sections, which are for the Budget year, *i.e.* April 1, 1916, to March 31, 1917. Separate reports are issued for the Ophthalmic Section, the Cairo City Health Inspectorate and for special work carried out at the Public Health Laboratories of the Department.

Since the commencement of the war, the Department has been obliged to carry on with a greatly diminished staff, and many of its permanent officials are still serving in various military capacities. This necessarily threw a good deal of work on the remaining staff.

On this account, and for various other reasons connected with war conditions, it was not possible to open out the work of the Department in directions which could have been done had the conditions been otherwise, nor was it reasonable to expect much in the way of hospital extension.

Notwithstanding these drawbacks, a considerable amount of new work was undertaken and two new blocks of buildings were added on to the Infectious Diseases Hospital at Abbasîya, Cairo; and a new ophthalmic hospital was opened at Faiyûm in June, 1916. Other new buildings connected with hospital extension had to be postponed for the time being.

The number of sick and wounded military patients treated in the Department's general and ophthalmic hospitals during the year was 13,033. These figures, when added to those of the previous two years, make a total of 34,294 military patients treated in the Public Health Department hospitals from the outbreak of the war until December 31, 1916. When it is taken into account that these hospitals, in addition to taking in and treating military patients, carried on their ordinary work as usual, it is very evident that the Hospital Section (both general and ophthalmic) had a good deal of extra work to contend with.

D. SEMPLE, Director-General.

1

I.-REPORT ON SECTION I.

1. BIRKAS.

The details of *birkas* belonging to the Government and filled in by private individuals in accordance with the arrangements made with the Government Lands Department are given in Table I :---

TABLE ILIST OF GOVERNMENT B	Sirkas FILLED	IN DURING	1916.
-----------------------------	---------------	-----------	-------

	DÎRÎY			Number of Birkas	TOTAL AREA.							
51.01	DIRIY	·A.		filled in.	Feddâns.	Qiráts.	Sahms,	Sq. Metres.				
Beheira				2	-	-	22	160.5				
Gharbîya				3	-	14	2	2,464.5				
Minûfîya				1	-	8	12	1,487.5				
Daqahliya				10	13	11	23	56,692.70				
Sharqîya				34	5	20	10	24,572.91				
Qalyûbîya				1	1	2	1	4,557.29				
Faiyûm				3	3	7	20	13,970.83				
Beni Suef				3	-	19	-	3,325				
Minya				3	3	19	20	16,070.83				
Asyût				3	l	5	20	5,220.83				
Tor	AL		•	63								

2. MOSQUES.

The following is a statement of the work which has been carried out in connexion with the improvement of the ablutionary systems of mosques throughout the country:----

Description.	Cairo,	Provinces,	Total.
Ablutionary systems of private mosques newly constructed and opened for use	- 1	2	3
Ablutionary systems of Waqfs mosques repaired and opened for use	-	1	1
blutionary systems of old private mosques requiring repairs :			
Number opened for use after repair	-	159	159
" closed for want of repairs	-	40	40
" under repair, the delay not having yet expired.	_	526	526

TABLE II .- MOSQUES DEALT WITH IN 1916.

3. CEMETERIES AND PRIVATE TOMBS.

(a) CEMETERIES.

Very little work has been done on cemeteries owing to the absence of personnel on account of the war.

The work actually carried out is as follows :---

				CEMETERIES		0	ld Cemeteri	E8.
PROVINCE	OR GOVERN	ORATE	Established.	Enlarged.	Roads for Cemeteries.	Authorized.	Portion condemned.	Condemned
Cairo Goveri Gharbiya P Minûfiya Daqahliya Sharqiya Beni Suef Giza Minya Asyût Damietta Go	rovince "" "" ""	····				$-\frac{2}{1}$		
	TOTAL		 2	1	1	3	-	1

TABLE III .- WORK DONE IN CONNEXION WITH CEMETERIES DURING 1916.

Encroachment on cemetery ground is of very common occurrence. Whenever brought to the notice of the Department, legal action is taken against the offender. The following table gives the results of the legal actions :—

TABLE IV.-LEGAL ACTIONS BROUGHT BY THE CONTENTIEUX AGAINST ENCROACHERS ON CEMETERY LANDS DURING 1916.

	PR	OVIN	ce.			Judgment in Government's Favour.	Judgment against Government.	Cases filed.
Sharqiya .	 				 	8	_	2
D 1 C	 				 	8 3	1	1
Minûfiya .					 	1	-	1
Daqahliya					 	2	-	-
Qalyûbîya					 			
Faiyûm .	 				 	9		_
Ct:	 				 	1	-	-
			T	DTAL	 	25	1	4

(b) PRIVATE TOMBS.

The following is a list of the special authorizations which have been given in 1916 for burials in private tombs not situated within cemeteries :—

Cairo Gov	ernorate	 		 	1
Gharbiya	Province	 		 	1
Daqahliya	**	 		 	1
Beni Suef	,,	 		 	2
Minya ·	"	 		 	3
Damietta	Governorate	 		 	1
		Т	OTAL	 	9

-3 -

4. ETABLISSEMENTS INCOMMODES, INSALUBRES · ET DANGEREUX.

The following table gives details of the applications for licences for establishments falling upder Class I of the Law of August 1904. Public and Cattle Markets (Class II) are also included:--

NATURE OF ESTABLISHMENT.	Approved.	Refused.	Applications given up.	Under Consi- deration.	TOTAL.
Aerated water factories	11	6	3	9	29
Sweetmeat factories	2	-	1	4	7
Sugar-cane crushing mills	8	-	-	3	11
Artificial butter factories	1	2	1	1	5-
Milk and butter factories	3	-	2	4	9
Oil-seed mills	3	-	1	2	6
Ice factories and cold storage establishments.	-	-	-	2	2
Macaroni factories	1	-	-	1	2
Rice-husking mills	8	4	1	9	22
Fish halaqas	-	-	-	2	2
Soap factories	6	_		4	10
Hospital	1	-		-	1
Cotton-ginning factories	5	-	1	6	12
Public and swimming baths	-	-	-	4	4
Tanneries	6	1	-	4	11
Plaster and homra mills	1	—	-	1	2
Mineral acid depots	-	1	_	1	2
Manure depot	_	1	_	_	1
Chemical manure depots	_	-	-	2	2:
Beer-bottling establishments	7	-	-	4	11
Alcohol factory		-	-	1	1
Distillery of perfumes	-	-	-	1	1
Public and food markets	. 1	2	-	3	6
Public and cattle markets	20	13	_	12	45
-					
Тотац	84	30	10	80	204

TABLE V.

NATURE OF ESTABLISHMENT.				Approved.	Not approved.	Under Consideration	TOTAL.
Alexandria :—			-				
Public stables		···· ··· ··· ··· ··· ··· ··· ··· ··· ·	···· ···· ···· ···· ····	212951 - 2 - 1 - 1 - 1 - 1 - 1 		$ \begin{array}{c} 4 \\ 1 \\ 2 \\ 4 \\ 2 \\ 1 \\ - \\ - \\ 3 \\ 1 \end{array} $	$ \begin{array}{c} 6\\ 2\\ 4\\ 13\\ 7\\ 2\\ 1\\ 2\\ 1\\ 3\\ 1\\ 3\\ 1 \end{array} $
T	OTAL			25	3	20	48
Gharbiya Province :—							
Fish <i>halaqa</i> Public stable Bakeries Pickles manufactory	· ···	···· ····		$-\frac{1}{2}$		1	1 1 2 1
Asyút Province :							
Lime-kiln				-	-	1	1
Potteries				. —	6	-	6
Damietta : — Oil-seed mill				-	-	1	1
Suez :— Bakery				_	1	*	1
Т	OTAL			4	7	· 3	

TABLE VI.

modes, Insalubres et Dangereux) were dealt with in 1916 as follows :---

5. SLAUGHTER-HOUSES AND SLAUGHTERING SITES.

No new slaughter-houses were established in the country during 1916.

Slaughtering Sites.—Sites for the slaughter of animals for food, in villages where no slaughter-houses exist, were approved in the following three villages :—

- 6 -

6. DEPOTOIRS.

Hitherto the method adopted for appointing a dépotoir has been the following :--

When the site selected has been approved by this Department, the Mudîrîya or Governorate in the circumscription of which the site exists, prepares an *arrêté*, which, after having been approved by the Ministry of the Interior, is published in the *Journal Officiel*.

As, however, by Article 5 of the Regulations on the "vidange des fosses d'aisance," issued by *arrêté* of November 8, 1886, and modified and completed by *arrêtés* of July 31, 1887, and June 2, 1910, this Department is the authority charged with the appointment of these *dépôtoirs*, the following procedure will be adopted in future, the Ministry of the Interior and the Contentieux having respectively agreed as to its advisability and legality :—

When the usual preliminaries have been completed for the selection of a *dépôtoir* and the site approved by this Department, the latter will itself issue an official notice appointing the site and will cause this notice to be published in the *Journal Officiel*.

The Mudîrîya or Governorate will, at the request of the Department, make two copies of the notice in the *Journal Officiel* and will cause one to be posted on the door of the Omda's house, and the other to be fixed to some convenient structure as near as possible to the site selected.

The only site appointed in 1916 for the deposition of sewage and refuse is that of Faiyûm Bandar.

7. MEDICO-LEGAL	EXAMINATIONS	AND REPORTS, 1916.
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LOCALITY.	SLIC	HT.	SER	ious.	FAT	TAL.	То	TAL.
	Accident.	Criminal.	Accident.	Criminal.	Accident.	Criminal.	Accident.	Criminal
Governorates :								dent
Cairo	581	11,793	270	91	215	38	1,066	11,922
Alexandria	326	3,681	263	46	339	42	928	3,769
Canal { Port Said Ismailia	$\frac{136}{26}$	470 117	8 18	35	$ 10 \\ 54 $	-	154 98	473 122
Suez (including Quseir)	63	39	10	_ "	26	6	94	45
Damietta	43	184	28	5	24	2	95	191
*El 'Arish	-	-	-	-	-	-	-	_
LOWER EGYPT.								
Provinces :								-
†Beheira	196	2,115	144	175	321	75	661	2,365
Gharbiya	502	3,414	285	177	545	104	1,332	3,695
Minûfiya	412	1,815	317	122	275	75	1,004	2,012
Daqahliya	$\frac{347}{222}$	$2,020 \\ 1,198$	121 187	72 103	305 280	41 38	773 689	2,133
Sharqîya Qalvûbiya	319	888	281	135	302	39	902	$1,339 \\ 1,062$
	01.	000	201	100	002	00	002	1,002
UPPER EGYPT.								
Provinces :								in an
Giza	165	1,359	138	128	229	48	532	1,535
Faiyûm	107	1,061	87	86	128	55	322	1,202
Beni Suef	94	1,589	61	75	135	40	290	1,704
IMinya	174 509	1,982 2.217	$\frac{145}{240}$	$ \begin{array}{r} 163 \\ 220 \end{array} $	227 355	89 108	546	2,234
Asyût Girga	211	1,458	127	117	302	48	$1,104 \\ 640$	$2,545 \\ 1,623$
Qena	105	1,203	124	111	325	45	554	1,359
Åswân	63	393	52	34	100	3	215	430
TOTAL	4,601	38,996	2,901	1,868	4,497	896	11,999	41,760

TABLE VII.

* No figures furnished, the Medical Officer having been temporarily withdrawn.

† Not including Siwa Oasis.

1 Not including Bahariya Oasis, the Medical Officer having been temporarily withdrawn.

8. PROTECTION OF DRINKING WATER.

No arrêtés of this kind were issued during 1916.

9. VITAL STATISTICS.

As was pointed out in the footnote to page 10 of the 1915 report, the European deathrates given in Tables X and XIII are unduly high owing to the presence of British and French troops and wounded in hospitals in various parts of the country. Such troops were not, of course, included in the population figures, whereas, on the other hand, deaths occurring amongst them were entered in the registers of the locality where they took place. Though in the case of soldiers on active service the effect of this arrangement on the deathrate would generally be practically negligible, the men being strong and healthy, the same cannot be said for the death-rates of those localities where sick and wounded are under treatment in the various hospitals, for here, as might be expected, the number of deaths is sufficient to exercise a considerable influence on the European death-rates, as the following figures will indicate.

In 1914, when there was practically no abnormal military population, and no wounded under treatment, the mean European death-rate was :—

> For the twenty principal towns 13.0 per thousand. For the whole country 12.4 per thousand.

In 1915, the military population was increased and a large number of sick and wounded soldiers were afforded treatment. In that year the corresponding rates were :---

> For the twenty principal towns 29.7 per thousand. For the whole country 28.3 per thousand.

The introduction of an abnormal factor of such importance into the statistical returns would, if not corrected, give an entirely erroneous idea of the condition of affairs in this country and would further render impossible the comparison of the European deathrates from year to year or for a series of years.

It was therefore decided, in order to preserve the sequence of normal European deathrates, to eliminate the military mortality and recalculate the figures. This has been done, with the result that the figures for 1915 have been reduced to 13.0 per thousand (instead of 29.7 per thousand) for the twenty principal towns, and 12.5 per thousand (instead of 28.3 per thousand) for the whole country.

The European death-rates for 1916, given below, have been calculated on the same lines, that is, with the military mortality figures eliminated.

			Estimated	UP TO JULY 1		
Towx.	-	1915			1916	
	Egyptians.	Foreigners.	Total.	Egyptians	Foreigners.	Total.
-	1	2	3	4	5	6
			1000			
Cairo	657,451	72,952	730,403	665,000	75,000	740,000
Alexandria	322,426	77,569	399,995	326,574	79,308	405,882
Damietta	35,894	267	36,161	36,374	269	36,643
Tanta	56,885	1,516	58,401	57,434	1,523	58,957
Mansûra	43,173	1,638	44,811	43,656	1,638	45,294
Damanhûr	45,516	372	45,888	46,183	372	46,555
Zagazig	36,950	1,685	38,635	37,310	1,691	39,001
Shibin el Kôm	25,706	182	25,888	26,165	182	26,347
Giza	17,939	112	18,051	18,174	114	18,288
Benha	19,189	219	19,408	19,611	221	19,832
Port Said	49,454	10,738	60,192	50,642	10,738	61,380
Suez	17,867	2,551	20,418	18,267	2,551	20,818
Ismailia	11,788	2,307	14,095	12,194	2,326	14,520
Faiyûm	41,043	178	41,221	41,428	178	41,606
Beni Suef	29,800	413	30,213	30,399	428	30,827
Minya	29,491	426	29,917	29,813	433	30,246
Asyût	43,070	277	43,347	43,451	280	43,731
Sohâg	19,875	67	19,942	20,156	67	20,223
Qena	21,217	72	21,289	21,437	72	21,509
Aswân	12,452	671	13,123	12,528	704	13,232
Total	1,537,186	174,212	1,711,398	1,556,796	178,095	1,734,891

TABLE VIII .- EGYPTIAN AND FOREIGN POPULATION OF THE TWENTY PRINCIPAL TOWNS OF EGYPT.

.

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TABLE IX .- BIRTHS, DEATHS, AND INFANT MORTALITY IN THE PRINCIPAL TOWNS.

Egyptians, 1916.

		Tot	FAL.		INFANT M	IORTALITY.		RTION PE ANT MOR	
Town.	Births,	Thousand.	Deaths,	Thousand.	Under	From 1		s under Tear.	From 1 to 10 Years-
	Dirtus.	Per Th	Deatins,	Per Th	1 Year.	to 10 Years.	To Births,	To Deaths.	To Deaths,
	1	2	3	4	5	6	7	8	9
				-					
Cairo	30,714	46.2	28,407	42.7	9,273	7,985	30.2	32.6	28.1
Alexandria	16,442	50.3	13,168	40.3	4,640	3,489	28.2	35 • 2	26.5
Damietta	1,091	30.0	940	25.8	243	293	22.3	25.9	-31-2
Port Said	2,439	48.2	2,439	48.2	700	999	28.7	28.7	41.0
Suez	972	53.2	941	51.5	325	166	33•4	34.5	17.6
Ismailia	1,003	82.3	1,263	103•6	255	307	25.4	20.2	24.3
Benha	647	33.0	542	27.6	194	168	30.0	35.8	31.0
Zagazig	1,634	43.8	1,322	35.4	380	414	23.3	28.7	31.4
Tanta	2,970	51.7	2,807	48.9	920	902	31.0	32.8	32.1
Mansûra	1,814	41.6	1,790	41.0	433	528	23.9	24.2	29.5
Shibîn el Kôm	1,127	43.1	708	27.1	216	145	19•2	30.5	20.5
Damanhûr	1,980	42.9	1,602	34.7	478	432	24.1	29.8	27.0
Giza	1,002	55.1	796	43.8	346	208	34.5	43.5	26.1
Faiyûm	2,174	52.5	1,748	42.2	737	486	33.9	42.2	27.8
Beni Suef	1,242	40.9	951	31.3	309	256	24.9	32.5	26.9
Minya	1,580	53.0	1,599	63.6	591	510	37.4	37.0	31.9
Asyût	2,189	50.4	2,169	49.9	716	694	32:7	33.0	32.0
Sohâg	867	43.0	928	46.0	311	277	35.9	33.5	29.9
-Qena	1,080	50.4	1,169	54.5	399	325	36.9	34.1	27.8
Anna	464	37.0	575	45.9	189	181	40.7	32.9	31.4
Aswan									
TOTAL	73,431	47.2	65,864	42.3	21,655	18,765	29.5	32.9	28.5

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- 9 -

-						To	TAL.		INFANT M	ORTALITY.		RTION PE ANT MOI	
	Town.				Births,	Per Thousand.	Deaths.	Per Thousand.	Under 1 Year.	From 1 to 10 Years.		s under l'ear. To Deaths.	From 1 ta 10 Years. To Deaths.
					1	2			5		7		9
		_											
				•		For	reigners,	1915.					
Cairo					451	6.2	- 790	10.8	99	91	22.0	12.5	11.5
Alexandria					1,522	19.6	1,159	14.9	205	154	13.5	17.7	13.3
Damietta Port Said		••			1100	3.7	$\frac{2}{147}$	7.5	1 27	- 21	100.0	50.0	14.3
Port Said Suez		•••			- 166 55	21.6	48	18.8	27	21	10.3	18·4 14·6	6.2
Ismailia					94	40.7	37	16.0	12	9	12.8	32.4	24.3
Benha					8	36.5	1	4.6	-	1	-	-	100.0
Zagazig					24	14.2	12	7.1	1	1	4.2	8.3	8.3
Tanta Mansûra		••			25 42	16·5 25·6	18 31	11·9 18·9	$\frac{2}{7}$	83	8.0 16.7	$\frac{11 \cdot 1}{22 \cdot 6}$	4·4 9·7
Shibîn el F					42	5.5	- 01	10 3	'	- 0	10 1	22.0	-
Damanhůr					6	16.1	3	8.1	2	-	33.3	66.7	
Giza					-	-	2	17.9	2	-	-	100.0	-
Faiyûm		••			3	16.9	$2 \\ 2 \\ 4$	11.2	1	-	33.3	50.0	-
Beni Suef Minya			••••		8	19.4	4 3	$9.7 \\ 7.0$	1	_	12.2	25·0 33·3	_
Asyût					8	28.9	3	10.8	2	_	25.0	66.7	-
Sohâg					2	29.9	1	14.9	-	_			-
Qena					-	-	-	-	-	-	-	-	-
Áswân		••			3	4.5	2	3.0	-	-	-	-	-
	Тота	L			2,419	13.9	2,265	13.0	370	291	15.3	16.3	12.8
				1		For	eigners,	1916.					
Cairo					456	6.1	753	10.0	95	96	20.8	12.6	12.7
Alexandria					1,457	18.4	982	12.4	164	136	11.3	16.7	13.8
Damietta Port Said					179	16.7	$\frac{2}{153}$	7·4 14·2	-31	- 25	17.3	20.3	16.3
Suez			**		45	17.6	153	22.7	7	25 2	15.6	12.1	3.4
smailia					71	30.5	52	22.4	18	12	25.4	34.6	23.1
Benha					5	22.6	2	9.0	-	-	-	-	-
Lagazig					24	14.2	15	8.9	3	3	12.5	20.0	20.0
l'anta Mansûra					10 31	6.6 18.9	10 29	6.6 17.7	16	47	10.0 19.4	10.0	40.0
Shibîn el K	tôm				- 91	10 9	29	11.0	_ 0	- '	13.4	20.7	24.1
Damanhûr					2	5.4	4	10.8	-		-	-	-
Jiza					-	-	1	8.8	1	-	-	100.0	-
Faiyûm Boni Snof	••• ••		•••		11	61.8	9	5.1	2	- 1	18.2	22.2	
Beni Suef Minya			••••		8 6	18·7 13·9	36	7·0 13·9	1	_ 1	$\frac{12.5}{16.7}$	33·3 16·6	33.3
Asyùt					8	28.6	7	25.0	i	_	12.5	14.3	-
Sohâg					1	14.9	1	14.9	-		-	-	-
Qena		*	•••		-	-	-		-	-	-	-	-
Aswân			••••		-	-	3	4.3	-	-	-	-	-
	Тота	L.			2,314	13.0	2,092	11.7	331	286	14.3	15.8	13.7

TABLES X AND XI.-BIRTHS, DEATHS, AND INFANT MORTALITY IN THE PRINCIPAL TOWNS.

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TABLE XII.-ANNUAL GENERAL RETURN OF BIRTHS AND DRATHS REGISTERED, VACCINATIONS AND REVACCINATIONS IN 1915.

	REMARKS.		15	(1) Environs included. (2) Generatorates: Bedouins included. <i>Provincest:</i> Bedouins ex- eluded. The number of Bedouins is, according to census of 1897, a follows:	Aswán 26,958 TOTAL 536,994	(3) Births of foreigners in- cluded as far as notified.	(4) Deaths among passen- gers are included.
SATIONS.	.fulaso	Dusace	14	1389 1920 1920 1920 1920 1920 1920 1920 192	12	2,123	1,111
REVACCINATIONS.		100000000	13	$\begin{array}{c c} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & &$	140	5,546	4,075
TIONS.	.du]sse	DouenU	12	$\begin{array}{c} 1,176\\ 1,176\\ 551\\ 1250\\ 11\\ 250\\ 11\\ 206\\ 12\\ 206\\ 123\\ 10,041$	165	10,325	5,511
VACCINATIONS.		Duccessiul.	11	$\begin{array}{c} 27,301\\ 15,344\\ 15,344\\ 15,344\\ 1,222\\ 2,1222\\ 2,222\\ 2,347\\ 1,029\\ 1,222\\ 2,344\\ 2,324\\ 33,023\\ 33,772$	7,680	489,529	471,807
	.base	Per The	10	10.8 14.9 1	3.31	12.5	12.4
18.		to other groups	6	1,159 1,159	101	2,309	2,245
DEATHS.	.brasuc		80	11.8 12.9 1	22.1	29.4	28.4
		suggerans.	2	$\begin{array}{c} 32,328\\ 10,558\\ 1,655\\ 1,168\\ 477\\ - \\ 477\\ - \\ 467\\ - \\ 465\\ - \\ 17\\ 17\\ 165\\ 27,465\\ 27,616\\ 27,616\\ 27,616\\ 17\\ 165\\ 27,616\\ 17\\ 165\\ 27,616\\ 17\\ 10,125\\ 20,010\\ 20,00\\ 20,0$	5,993	347,335	330,888
	·puesno	Per Th	9	11111111 1111111111	11	1	
8.		oreaginers.	s	$\begin{array}{c} 1,522\\ 1,522\\ 166\\ 10\\ 10\\ 10\\ 10\\ 23\\ 55\\ 30\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 23\\ 55\\ 56\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	0.00	2,483	2,527
BIRTHS.	.busard.		4	$\begin{array}{c} \textbf{444} \textbf{456} \textbf{5} \textbf{5} \textbf{5} \textbf{5} \textbf{5} \textbf{5} \textbf{5} 5$	36•3	43-9	44.6
	Presentance	. anend Ser	3	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $	8,461	517,553	519,940
TION.	n Census 1907.	Foreigners.	64	$\begin{array}{c} 72,952\\ 77,569\\ 71,569\\ 2,551\\ 2,551\\ 2,557\\ 1,557\\ 1,871\\ 1,871\\ 1,871\\ 1,871\\ 1,871\\ 1,871\\ 1,871\\ 1,871\\ 1,871\\ 1,871\\ 1,018\\$	909	184,380	180,346
POPULATION.	Calculated on Census of July 1, 1907.	Egyptians.	1	$\begin{array}{c} 657,451\\ 322,426\\ 322,426\\ 49,454\\ 17,867\\ 11,788\\ 1,733\\ 2,338\\ 903\\ 388,902\\ 388,9$	232,958	11,798,948	11,646,284
	RATE	INCE.		2	::	:	
	GOVERNORATE	OR PROVINCE.			Aswân	TOTAL	Preceding Year

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TABLE XIII.-ANNUAL GENERAL RETURN OF BIRTHS AND DEATHS REGISTERED, AND VACCINATIONS AND REVACINATIONS IN EGVET DURING THE YEAR 1916.

	REMARKS.		15	(1) Environs included. (2) Governorates : Bedouins Included. <i>Provinces</i> : Bedouins ex- cluded. The number of Bedouins is, according to census of 1897, as follows :		(3) Births of foreigners in- cluded as far as notified. (4) Deaths among passen- gers are included.
ATIONS,	.lobses	oonsaU	14	- ⁻ ⁺ ⁻ ⁻ ⁻ ⁻	$\begin{smallmatrix} 171 \\ 158 \\ 158 \\ 166 \\ 16$	2,587 2,123
REVACCINATIONS.		Successful.	13	215 215 213 213 213 213 213 213 213 213 215 215 215 215 215 215 215 215 215 215	530 552 552 552 555 564 401 120 565 565 565 565 565 565 565 565 565 56	6,214 5,546
TIONS.	.Inlase	OousaU	12	751 309 305 309 83 63 63 63 63	559 476 476 476 476 841 843 845 845 841 841 841 841 841 841 841 841 841 841	9,063 10,325
VACCINATIONS.		Successful.	11	27,082 15,408 887 887 2,217 887 887 887 840 840 - 67	19,160 31,290 31,290 30,142 30,142 30,142 30,142 33,565 30,142 33,565 18,777 18,777 18,777 28,176 29,160 29,160 20,166 20,176 20	469,696 489,529
	.banano	Per The	10	12:44 12:45	2116 2116 2116 2116 2116 2116 2116 2116	11.3
ső.		r oreigners.	6	753 982 982 58 153 153 153	ม#5#3∞ยมของ∞⊷∞ө	31·3 2,129 11·3 29·4 2,309 12·5
DEATHS.		Ter Tho	8	$\begin{array}{c} 42.7\\ 42.7\\ 25.8\\ 25.8\\ 52.7\\ 52.7\\ 34.4\\ 24.3\\$	283.33 283.33 283.33 283.33 283.33 283.33 283.33 283.33 283.33 283.33 283.33 283.33 293.55 203.55 20	31.3
		rdyptians.	7	28,407 13,168 940 2,439 1,263 1,263 61 61	15,573 25,481 25,566 22,5566 22,5566 22,5566 15,776 15,776 15,776 15,776 15,776 15,776 15,776 15,776 15,776 15,776 15,776 15,776 16,648 23,566 20,945 21,145	- 374,229 - 347,335
	.basevo	Per The	9	11111111	1111111111111	
÷		, orogaers.	s	$1,456 \\ -179 \\ -179 \\ -171 \\ -171 \\ -1$	1 2 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	53 42·2 2,397 53 43·9 2,483
BIRTHS.	.busau		4	58 - 33003 28332 284 28332 284 28332 284 28332 284 28332 280 28332 280 28332 280 280 280 280 280 280 280 280 280 28	22225555555555555555555555555555555555	42.2 43.9
	Variations	'sound & Bor	3	$\begin{array}{c} 30,714\\ 16,442\\ 1,442\\ 1,091\\ 2,439\\ 2,439\\ 2,439\\ 2,439\\ 1,003\\ -1\\ 104\\ 11\end{array}$	$\begin{array}{c} 20,666\\ 33,187\\ 33,187\\ 33,966\\ 31,946\\ 31,946\\ 32,956\\$	00 503,953 90 517,553
TION.	n Census , 1907.	Foreigners.	eq	75,000 269 269 269 269 2,326 2,326 2,326 2,326 16 71	$\begin{array}{c} 3,049\\ 3,049\\ 2,303\\ 3,563\\ 1,905\\ 1,905\\ 847\\ 853\\ 848\\ 848\\ 848\\ 848\\ 848\\ 848\\ 848\\ 84$	188,390 184,380
POPULATION.	Calculated on Census of July 1, 1907.	Egyptians.	1	$\begin{array}{c} 665,000\\ 326,574\\ 36,374\\ 50,642\\ 13,194\\ 7,498\\ 1,774\\ 1,439\end{array}$	$\begin{array}{c} 462,652\\ 910,624\\ 994,303\\ 1,640,436\\ 776,054\\ 1,055,118\\ 483,899\\ 394,829\\ 394,829\\ 394,829\\ 394,829\\ 394,829\\ 394,829\\ 885,136\\ 885,136\\ 885,136\\ 885,136\\ 885,136\\ 885,136\\ 885,136\\ 885,136\\ 885,101\\ 235,101\\ 235,101\\ \end{array}$	11,955,821 11,798,948
	GOVERNORATE	OR PROVINCE.		Governorates. Cairo	Asyútica	TOTAL [11,955,821] 188,35 Preceding Year] 11,798,948 184,35

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10. PROSTITUTES.

In Egypt, control over prostitutes is exercised in virtue of the Regulations issued by the Minister of the Interior on November 16, 1905, which are applicable by special arrêté of the Governor or Mudîr to such places as may be considered necessary. By this enactment, houses in which two or more females live for the purpose of prostituting themselves are considered as maisons de tolérance and are required to be so registered by the local administrative authorities. Each prostitute inhabiting such a house is bound to register herself as a prostitute and is provided with a card bearing her photograph, description, address, etc. She is required to present herself once a week for medical examination, the card being stamped when no disease is found. Native prostitutes found diseased as the result of examination are to be sent to the nearest Government hospital and detained there till cured.

This law is applicable to foreign subjects with two modifications: the consent of the consul must be obtained before a house can be registered as a *maison de tolérance*, and compulsory detention is not provided for.

The registration of *maisons de tolérance* and of prostitutes is carried out by the Police, and the medical examination and hospitalization by the Department of Public Health.

The following table indicates the places to which the Regulations were applied during 1916, and also certain information regarding the prostitutes examined during the year:—

					Number of	Number of		SICK OF	
P	LACE.				Prostitutes.	Examinations,	Syphilis.	Gonorrhœa,	Other Diseases,
Q. :				102.5	1,379	45,100	795	408	
Cairo Alexandria		• •••	 		1,583	48,904	133	570	394
0 1 0 11			 		208	10,070	5	29	43
			 		- 22	52	25	46	2
			 	••••	-73	2,600	76	94	
D			 		4	267	1	2	-
Beheira :—									
Damanhûr			 		60	2,590	77	14	_
CIL 1 771.11			 		6	350	_	_	1
Gharbiya :—									
Tanta			 		336	8,747	127	49	4
			 		45	1,122	28	7	5
Disûq			 		8	47	1	5	-
Mahalla el Kubra			 		49	1,121	2	13	1
			 		58	52	17	4	1
Minúfiya :—									
Shibîn el Kôm			 		32	621	7	1	
Minûf			 		17	16	3	8	-
Sharqiya :—									
			 		110	3,423	30	19	
THE '			 		42	881	4	12	

TABLE XIV .- PROSTITUTES IN 1916.

								Number of	Number of	SICK OF				
		PLAC	E.					Prostitutes.	Exami- nations.	Syphilis.	Gonorrhœa,	Other Diseases.		
Daqahliya :—														
Mansúra								174	2,802	19	18	- 2		
Mit Ghamr								73	1,354	4	4	3		
Simbillâweir	1	••••						28	455	5	1	-		
Qalyûbîya :—							1				-			
Benha.*														
Gíza :—														
Giza								34	819	1		-		
Imbâba								30	37	8	2	1		
Faiyûm :—														
									0.000	10	0			
Faiyûm							•••	51	2,386	12	3	-		
Beni Suef :														
Beni Suef								58						
									1,435	32	56	-		
Minya :—														
Minya								136	3,412	138	70			
Beni Mazâr								27	1,242	10	4	-		
Asyút :—														
Asyût								71	1,626	87	65	-		
Mallawi								17	765	4	1	-		
Rôda								23	1,035	1	-	-		
Manfalût Abu Tîg		····						7 41	300 2,091	$\frac{1}{2}$	-	- 1		
Abu 11g						•••		71	2,001	~		1		
Girga :—														
Tahta								12	278	2	5	3		
Sohâg						••••		48	2,738	45	53	-		
Akhmim								15	703_	5	2	-		
Girga						••••		44 29	1,251 271	4	12	27		
Balyana								23	211	_	-	. '		
Qena :—														
Isna								50	1,427	28	32	-		
Luxor								47	1,408	3	7	5		
Qûs								13	284	3	3	1		
		•••	•••					8	447	1	5	-		
Nag ^e Hamma		•••	•••					34 20	773	3	15	1		
Farshût Qena		•••		••••	••••	••••		30 . 55	544 1,317	6 6	20 17	-10		
Qena						••••			1,011	0	11	10		
Aswân :—														
Aswân								12	612	11	14	3		

TABLE XIV .- PROSTITUTES IN 1916 (continued).

* The register having been lost, figures are unobtainable.

It is to be noted that prostitution itself is only indirectly dealt with. According to the strict letter of the law, any number of prostitutes practising their profession in separate houses could not be controlled, nor is soliciting an offence under the law unless it can be dealt with indirectly as loitering or obstructing traffic.

The number of prostitutes treated in the various Government hospitals is shown in the table below :---

	Number of		DISEASES.	
HOSPITAL.	Prostitutes.	Syphilis.	Gonorrhœa,	Other Diseases
Alexandria (Lock Hospital)	577	193	97	287
Suez	170	76	94	_
Port Said	78	29	28	21
Damietta	4	1	2	1
Tanta	297	175	110	12
Damanhûr	91	77	14	-
Mansûra	81	20	59	2
Zagazig	190	89	91	10
Shibin el Kôm	14	7	1	6
Benha	66	25	36	5
Qalyàb	-	-	-	-
Qasr el Aini (Hod el Marsúd Lock Hospital)	1,685	643	801	241
Fever Hospital	41	-	-	41
Beni Suef	88	32	56	
Faiyûm	19	15	1	3
Minya	208	138	70	-
Asyût	152	87	65	-
Sohâg	102	45	57	-
Qena	123	4	85	34
[sna	60	28	32	-
Aswân	28	11	14	3
Matruh	5	3	2	—
Тотац	4,079	1,698	1,715	666

TABLE XV .-- NUMBER OF PROSTITUTES TREATED IN GOVERNMENT HOSPITALS DURING 1916.

The regulation of prostitution, though checking to a certain extent the amount of infection from prostitutes, has comparatively little influence on the general spread of venereal diseases. The Department is of opinion that this can only be efficiently dealt with by the establishment of out-patient clinics for diagnosis and treatment of venereal diseases in all the large towns on the lines laid down in the Report of the Royal Commission on Venereal Disease. Such a clinic has already been established in Cairo and is conducted on the following lines :---

- (1) The treatment is entirely confidential and the names of patients are not taken.
- (2) Bacteriological diagnosis is carried out free of charge.
- (3) Treatment of all cases of venereal diseases in women is free.
- (4) The treatment of male cases is fixed at prices not greater than the cost of the drugs used.

It is not expected that patients in large numbers will present themselves at first, but it is hoped that in time this clinic will reach a class of sufferers from venereal diseases to whom anything but quack treatment had formerly been unknown.

I.—GENERAL HOSPITALS.

HOSPITALIZATION OF MILITARY PATIENTS.

During the year 1916 the general hospitals continued to admit military patients.

Early in the year, in addition to the hospitals in Lower Egypt and the Faiyûm which were already all admitting military cases, except those at Damietta and Qalyûb, the general hospitals at Asyût, Minya, Beni Suef and Sohâg were turned into hospitals for military cases and a certain number of beds were reserved for military cases in the hospitals at Qena, Esna and Aswân. In each case arrangements were made for the hospitalization of the Egyptian cases either by converting infectious hospitals or outpatient buildings into general hospitals or by erecting temporary matting huts.

Matrons and nursing sisters were sent to all the hospitals which were not already so staffed.

The accommodation reserved for military cases in the Government general hospitals varied at different periods of the year from 2,300 beds to 750 beds.

During the year, 12,897 military cases, including prisoners of war, were treated in the Government general hospitals.

The number of patient-days for military cases was 212,238.

Out of the 12,897 military cases admitted, 7,142 were discharged as fit for immediate duty, 2,155 were discharged to convalescent homes or camps, 199 were invalided to England, 2,977 were transferred to other hospitals, and 170 died.

The average death-rate for military cases during 1916 was 1.318 per cent of cases admitted, as compared with 1.427 per cent in 1915.

The total number of military cases admitted to the Government general hospitals since the commencement of the war to the end of 1916 was 28,284. Of these 28,284 cases, 12,039 were discharged as fit for immediate duty, 9,924 were discharged to convalescent homes or camps, 1,471 were invalided to England, 3,867 were transferred to other hospitals, and 396 died.

The total number of patient-days for military cases from the commencement of the war to the end of 1916 was 526,885 and the average death-rate for the same period was 1.4 per cent of cases admitted.

GENERAL STATISTICS.

Again, as in 1915, owing to the altered conditions, due to the admission of military cases, any comparisons between the statistical figures for 1916 and those for previous vears lose considerably in value.

The number of hospitals remained the same as in 1915, i.e. 22.

The number of beds, however, increased from 3,320 in 1915 to 3,825 in 1916, an increase of 505 beds.

This increase was due partly to an increase in the number of beds at the Hôd el Marsûd hospital for prostitutes and partly to the expansion of hospitals in order to accommodate the military cases.

The Hôd el Marsûd hospital was enlarged by nearly 300 beds. This hospital is an annex to Qasr el Aini hospital and accommodates the native prostitutes of Cairo suffering from venereal diseases.

The number of in-patients treated in general hospitals in 1916 was 55,489 as compared with 50,483 in 1915, an increase of 5,006.

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The number of voluntary in-patients treated in 1916 was 23,332, as compared with 14,807 in 1915, an increase of 8,525. Military cases were not, of course, classed as voluntary patients. This increase is very satisfactory, as it shows that year by year the hospitals are getting more popular and more patients are coming into them of their own free will. This is the first year in which the voluntary cases have actually outnumbered the police cases, the figures being 23,332 voluntary cases as compared with 17,437 police cases.

The number of days of treatment was 946,557 as compared with 858,878 in 1915, an increase of 87,679. As compared with 1914 the increase is 264,877.

This figure gives some idea of the way in which the work in the general hospitals is increasing. Unfortunately, the staff is not increasing in the same ratio.

The average death-rate for all in-patients (both civilian and military) during 1916was 5.268 per cent as compared with 5.076 per cent in 1915 and 6.225 per cent in 1914.

The number of new out-patients during 1916 was 178,788 as compared with 152,329 in 1915, an increase of 26,459.

The number of out-patient attendances during 1916 was 392,961 as compared with 340,774 in 1915, an increase of 52,187.

The number of major operations performed in the hospitals during 1916 was 8,576as compared with 5,421 in 1915, an increase of 3,155.

Table No. XVI "Comparative Annual Statistics," shows some very interesting figures. In 1908 the number of beds in the general hospitals was 2,263. In 1916 it was 3,825, an increase of 1,562 beds. In 1908 the number of in-patients treated was 31,802. In 1916 it was 55,489, an increase of 23,687.

In 1908 the number of days of treatment were 556,543. In 1916 it was 946,557, an increase of 390,014.

In a period of eight years the number of beds in the general hospitals has increased by 69 per cent, the number of in-patients treated has increased by 74 per cent, and the number of days of treatment has increased by 70 per cent.

Cost of Maintenance.

The cost of upkeep of the General Hospitals during 1916 was L.E. 123,379-860 milliemes. This figure, as in former years, does not include the expenses of the Central Administration nor does it include repairs and renewals of buildings.

The average cost per bed per annum was L.E. 32.256 milliemes and the average cost per patient-day was 130 milliemes. During 1915 the cost of upkeep was L.E. 114,843. 117 milliemes, the average cost per bed per annum was L.E. 34.591 milliemes and the average cost per patient-day was 134 milliemes.

The increased expenditure during 1916 amounted to L.E. 8,536.743 milliemes. This increased expenditure was due to three causes : (a) the cost of equipping 505 extra beds and of converting hospitals equipped for natives into hospitals for Europeans ; (b) the cost of treating and feeding 5,006 additional in-patients and of treating 26,459 additional outpatients ; (c) the increased cost of all equipment, drugs, dressings, food, etc., owing to the war.

It is very satisfactory to note that in spite of this increased expenditure the average cost per bed per annum has decreased from L.E. 34.591 milliemes in 1915 to L.E. 32.256 milliemes in 1916 and the cost per patient-day from 134 milliemes in 1915 to 130 milliemes in 1916.

In 1916 the total cost of upkeep of the general hospitals was L.E. 123,379.860 milliemes and the total receipts L.E. 49,226.635 milliemes, therefore the actual cost to the Government of these institutions was L.E. 74,153.225 milliemes.

In 1915 the total cost of upkeep was L.E. 114,843.117 milliemes and the total receipts L.E. 53,786.241 milliemes, therefore the actual cost to the Government was L.E. 61,056.876 milliemes.

Hence, in 1916, the general hospitals cost the Government L.E. 13,096.349 milliemes more to maintain than in 1915.

The reasons for this were the increased cost of equipment, drugs, food, etc., and the reduction in the number of military cases treated in 1916 as compared with 1915.

However, when these figures are compared with the last normal year, *i.e.* 1914, it will be seen that the general hospitals are really costing the Government considerably less to maintain than they did before the war.

In 1914 the total cost of upkeep was L.E. 92,189.050 milliemes and the total receipts were L.E. 7,230.291 milliemes, therefore the actual cost to the Government was L.E. 84,958.759 milliemes.

In 1916 the actual cost to the Government was L.E. 74,153.225 milliemes. Hence, in 1916, there was a clear economy to the Government of L.E. 10,805.534 milliemes as compared with 1914.

Of course, the large increases in the receipts of the hospitals during 1915 and 1916 were due to the fees received for the military patients.

GENERAL NOTES.

During 1916 no new x-ray installations were installed.

A milk sterilization plant was installed at Suez hospital and has proved very useful. During 1916 hospital stewards (*Moawenîn*) were appointed to Suez and Damanhûr

hospitals.

There are now hospital stewards at the following hospitals : Qasr el Aini, Alexandria, Port Said, Suez, Tanta, Asyût, Mansûra, Zagazig and Damanhûr. It is hoped year by year to appoint more of these officials until there is one in every hospital. They combine the duties of hospital storekeeper with the supervision of the deliveries of rations from the hospital contractors, supervision of the laundries and kitchens, etc., etc.

They relieve the Medical Officers of a considerable amount of routine work and allow them to devote more time to the actual treatment of the patients.

In 1914 arrangements were made for the examination of all pathological specimens from the provincial hospitals at the Pathological Department of the Qasr el Aini School of Medicine under the supervision of the Professor of Pathology.

The following is an extract from the annual report of the Pathological Department of the School of Medicine for that year :---

"In the course of time the results obtained will furnish most valuable information from the statistical point of view. The fact also that Medical Officers of hospitals throughout the country now have the means of obtaining a histological report on any tissues which they may send to the central laboratory for this purpose cannot fail to be a stimulus to more accurate work. From the steady increase in such demands which have been made, more particularly during the four concluding months of the year, it is evident that this is being realized and appreciated."

Unfortunately, during 1916 the Director of the School of Medicine informed the Department that this work could not be continued through lack of staff owing to the war.

This is greatly to be regretted, as now the Medical Officers of the provincial hospitals have to rely entirely on clinical observation in deciding whether a new growth is malignant or not. The result of this cannot be otherwise than detrimental to the interests of the patients.

Also valuable statistical information as to the prevalence of malignant diseases in the country, etc., etc., is lost.

It is sincerely hoped that immediately the war is over arrangements may again be made for the examination of these tissues.

NEW BUILDINGS AND REPAIRS.

The two new blocks at Abbâsîya infectious hospital which were commenced in 1915 were completed and handed over. These are the first steps in a general scheme to enlarge this hospital. It is at present far too small to meet the requirements of a large city such as Cairo.

The new laboratory at Suez hospital was completed and handed over.

Qasr el Aini hospital and Abbâsîya infectious hospital were connected up with the Cairo main drainage system. The general and infectious hospitals at Port Said were connected up with the Port Said main drainage system.

The bucket latrine systems at Qasr el Aini hospital and Port Said general hospital were converted to the water-carriage system.

At Qasr el Aini hospital new sewing rooms were erected on the roof of the washhouse, the existing sewing rooms being converted into coal stores. A new oil engine for electric lighting was also installed.

A new oil store was built at Port Said general hospital and the existing coal store enlarged.

The total amount spent on hospital repairs and renewals during 1916 was L.E. 6,494.

Extensive repairs were carried out at Qasr el Aini hospital at a cost of L.E. 2,830.

The sum of L.E. 1,404 was spent on repairing and repainting at Alexandria hospital. L.E. 1,283 was spent on repairing and repainting Port Said general hospital.

Small repairs were undertaken at the following hospitals : Asyût, Suez, Zagazig, Benha, Beni Suef, Damanhûr, Minya, Shibîn el Kôm, Tanta, Hôd el Marsûd, and Abbâsîya infectious hospital.

NEW STATISTICAL TABLES.

The only new statistical table inserted in this section of the report is Table No. XXV "Number of Military Cases admitted to each Hospital from the Commencement of the War to the End of 1916." Suez hospital heads the list with 5,752 cases. Qasr el Aini is next with 5,346 cases, and Alexandria hospital third with 2,967 cases. Two hospitals have dealt with over five thousand cases, four hospitals with over two thousand cases, and eleven hospitals with over one thousand cases.

In table No. XXVI "Comparative Annual Statistics," a further column has been added showing year by year the average cost per patient-day. It is greatly to be regretted that these figures cannot be carried farther back than 1912, as previous to that year no record was kept of the expenditure on the hospitals as apart from the general expenditure of the Department.

TABLE X	VICOMPARATIVE	GENERAL STATISTICS.
---------	---------------	---------------------

			1915.	1916.	Increase or Decrease.
Number of hospitals	 	 	22	22	
" beds	 	 	3,320	3,825	+ 505
" in-patients treated	 	 	50,483	55,489	+ 5,006
Of which voluntary patients	 	 	14,807	23,332	+ 8,525
Death-rate for in-patients	 	 	5.076%	5.268 %	+ 0.192%
Number of days of treatment		 	858,878	946,557	+ 87,679
" new out-patients	 	 	152,329	178,788	+ 26,459
, out-patients' visits			340,774	392,961	+ 52,187
Major operations		 	5,421	8,576	+ 3,155
0. 1. 5. 1			L.E. M.	L.E. M.	L.E. M.
Cost of upkeep	 	 	114,843 117	123,379 860	+ 8,536 743
Receipts	 	 	53,786 241	49,226 635	-4,559 606

TABLE XVI	-PATIENTS	AND COST.
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HOSPITAL.	TTAL. of 0		Number of In- Patients. Number of Days of Treatment.		Number of Out- Patients' Visits,	Number of Operations,	Cost of U for 19	Cos I per A	- any.		
							L.E.	м.	L.E.	м.	м.
Alexandria	422	9,989	146,173	20,388	56,792	1.587	19,580	994	46	400	134
Suez	· 420	5,483	76,769	5,917	10,763	401	11,674	411	27	796	152
Port Said	150	2,887	35,264	26,580	39,676	256	7,009	832	46	732	199
Port Said (Inf.)	-	82	_	-	-		-	-	-	-	-
Damietta	-44	831	11,670	12,045	21,987	196	1,102	000	25	045	094
Tanta	128	1,944	29,430	5,261	15,975	218	3,662	461	28	613	124
Damanhûr	63	1,438	25,894	2,955	4,333	178	2,690	180	42	701	104
Mansûra	110	1,947	37,925	6,285	12,199	248	3,117,	415	28	340	082
Zagazig	160	2,367	43,271	3,648	6,577	216	4,407	192	27	545	102
Shibin el Kôm	74	1,111	19,542	3,936	16,792	256	2,220	961	30	013	114
Benha	86	1,593	24,937	3,055	5,732	171	3,431	475	39	901	137
Qalyûb	34	933	9,660	6,092	12,457	266	949	437	27	925	098
Mersa Matrûh	14	114	1,687	250	350	7	398	661	28	476	236
Qasr el 'Aini	834	10,361	248,791	54,679	131,476	3,094	29,736	774	35	656	119
Fever Hospital	570	3,467	70,145			-	9,115	499	15	992	130
Beni Suef	60	1,091	18,507	5,130	5,653	240	3,222	702	53	712	174
Faiyûm	-75	1,568	21,486	3,598	6,775	155	3,744	750	49	930	174
Minya	119	1,848	24,785	3,945	16,483	127	4,079	533	34	282	165
Asyût	272	3,478	52,257	4,351	6,576	500	6,391	698	23	499	122
Sohâg	56	1,223	19,188	2,074	6,811	170	2,313	555	41	313	120
Qena	59	763	12,714	2,740	4,494	118	1,676	020	-28	407	132
sna	32	466	7,137	1,631	5,581	89	1,335	775	41	743	187
Aswân	43	505	9,325	4,228	5,479	83	1,518	535	35	315	163
TOTAL	3,825	55,489	946,557	178,788	392,961	8,576	123,379	860	32	256	130

TABLE XVIII.-IN-PATIENTS (VOLUNTARY, MILITARY, AND POLICE).

Hospital.	Voluntary Cases,	Police Cases.	Military Cases.	Total Number of Cases.	Total Number of Days of Treatment.
Alexandria	6,397 1,671 1,225 -606 3755 5766 9855 3488 2422 2433 6677 3,058 3,058 303 40 85	$1,970 \\ 286 \\ 816 \\ \\ 195 \\ 1,203 \\ 467 \\ 762 \\ 933 \\ 776 \\ 713 \\ 247 \\ 12 \\ 4,927 \\ 255 \\ 359 \\ 405 \\ 599 \\ 100 \\ $	$\begin{array}{c} 1,232\\ 3,386\\ 750\\ 82\\ -\\ 303\\ 330\\ 139\\ 1,017\\ 57\\ 582\\ -\\ 60\\ 210\\ 106\\ 395\\ 1,081\\ 1,125\\ \end{array}$	$\begin{array}{r} 9,599\\ 5,343\\ 2,791\\ 82\\ 801\\ 1,881\\ 1,373\\ 1,886\\ 2,298\\ 1,075\\ 1,538\\ 914\\ 111\\ 9,933\\ 3,419\\ 1,057\\ 1,526\\ 1,809\\ \end{array}$	$\begin{array}{r} 146,173\\76,769\\35,264\\\hline \\11,670\\29,430\\25,894\\37,925\\43,271\\19,542\\24,937\\9,660\\1,687\\248,791\\70,145\\18,507\\21,486\\24,785\\\end{array}$
Asyùt Sohâg Qena Isna Aswân	841 283 178 196 178	$1,150 \\ 447 \\ 480 \\ 159 \\ 276$	$1,404 \\ 442 \\ 81 \\ 89 \\ 26$	3,395 1,172 739 444 480	52,257 19,188 12,714 7,137 9,325
	23,332	17,437	12,897	53,666	946,557

 22	-	

			ADMITTED.			Disch	ARGED.	
Hospital.		Existing.	Admitted.	Total.	Cured.	Died.	Improved.	Remaining
Alexandria		 390	9,599	9,989	4,923	662	4,058	346
Suez		 140	5,343	5,483	4,558	114	- 658	153
Port Said		 96	2,791	2,887	1,500	97	1,213	77
Port Said (Infectious)		 	.82	82	79	-	3	-
Damietta		30	801	831	561	33	206	31
Tanta		 63	1.881	1,944	1,625	110	113	96
Damanhůr		 . 65	1,373'	1,438	1,224	84	93	37
Mansûra		61	1,886	1,947	1,310	120	426	91
Zagazig		69	2,298	2,367	1,818	86	373	90
Shibin el Kôm		 36	1,075	1,111	880	44	140	47
Benha		55	1,538	1,593	1,246	32	249	66
Qalyûb		19	914	- 933	129	35	739	30
Mersa Matrûh		3	111	114	90	7	16	1
Qasr el 'Aini		. 428	9,933	10,361	5,156	677	3,677	851
Fever Hospital		. 48	3,419	3,467	2,920	439	44	64
Beni Suef			1,057	1,091	800	057	203	31
Faiyûm		. 42	1,526	1,568	1,287	029	228	24
Minya			1,809	1,848	1,237	051	499	61
Asyût		. 83	3,395	3,478	2,567	144	608	159
Salata			1,172	1,223	849	50	261	63
Oone		01	739	763	450	26	251	36
Lena		00	444	466	406	11	26	23
Aswân		25	480	505	365	15	92	33
Т	OTAL	 . 1,823	53,666	55,489	35,980	2,923	14,176	2,410

TABLE XIX .- Admissions and Discharges.

TABLE XX.-Out-Patients' Division.

Но	Hospital,					Number of Attendances.	HOSPITAL	Tumber of tendances
							Brought forward 96,162	203,283
Alexandria					20,388	56,792	Mersa Matrûh 250	350
Suez					5,917	10,763	Qasr el 'Aini 54,679	131,476
Port Said					26,580	39,676	Fever Hospital	-
Damietta					12,045	21,987	Beni Suef 5,130	5,653
Fanta					5,261	15,975	Faiyûm 3,598	6,775
Damanhûr					2,955	4,333	Minya 3,945	16,483
Mansúra					6,285	12,199	Asyût 4,351	6,576
Zagazig					3;648	6,577	Sohâg 2,074	6,811
Shibîn el Kô	m				3,936	16,792	Qena 2,740	4,494
Benha					3,055	5,732	Isna 1,631	5,581
Qalyûb					6,092	12,457	Aswân 4,228	5,479
Car	ried	forw	ard		96,162	203,283	Тотал 178,788 3	92,961

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TABLE XXI.-HOSPITALS RECEIPTS, 1916.

HOSPITAL.	1	RECEI	PTS	HOSPITAL.	RECEI	PT8.
		L.E.	м.		LE.	м,
				Brought forward	33,680	996
Alexandria	7.	,740	755	Mersa Matrûh	12	510
Suez	10	,385	141	Qasr el 'Aini	1,260	988
Port Said	5,	,101	970	Fever Hospital	904	290
Damietta		69	755	Beni Suef	1,114	830
Canta	1.	,608	339	Faiyûm	3,217	890
Damanhûr	1,	,754	271	Minya	2,513	095
Mansûra		473	132	Asyût	4,350	380
Zagazig	3,	,707	376	Sohâg	1,278	945
Shibin el Kôm		537	332	Qena	326	818
Benha	2,	,247	917	Isna	362	612
Qalyûb		55	008	Aswân	203	281
Carried forward	33,	,680	996	Total	49,226	635

TABLE XXIILUNATE	CS (SUSPECTED AND CERTIFIED).
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Hospital.	certifi	er of ied and Asylu	l sent m.	di ns n	ser of scharg ot Ins	ed	ns i	ber of release recover	d ed.	rel still not Asylui	ber of leased Insane require m Treat	as but ring	adn Hospi	tal Ca iitted itals ir	into	Total Cases admitted into Hospitals in 1915.
	Males.	Fem.	Total.	Males.	Fem.	Total.	Males.	Fem.	Total.	Males.	Fem.	Total.	Males.	Fem.	Total.	To adm Hospi
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1															
Isna		-	2	-	-	-	_	_	-	_			2	-	2	5
Sohâg	2	-	2		-	-	_		-	-	-	-	2	-		14
Damietta	-	-	-	_		-	1	-	1	16	-	17	21	2		
Asyût	4	1	5	3	-	- 3	1		1	10			7	1	23	24 17
Beni Suef	- 3	1	4	0	-			1			-	1	3		1000	
Qena	2	-	2	2	-	- 3	.9	3	12	1	-		21	- 5	3	4
Mansúra	10	1	11	1.1.1.2.2.2	1			0			-	1	6	2	26	25
Damanhûr	4	2	6	1	-	1	-	-	-	1	-	1000	2.2	-	8	3
Port Said	6	8	14	11	3	14	-		-	14	-	14	31	11	42	36
Minya	-	-	-	4	-	4	-	-	-	-	-	-	4	-	4	6
Shibîn el Kôm	1	-	1	1	1	2	1	1	2	2		2	5	2	7	2
Suez	7	-	7	1	-	1	-	-	-	-	-	-	8	-	8	4
Faiyûm	2	1	3	-	2	2	-		-	12	3	15	14	6	20	17
Qasr el 'Aini (Cairo)	23	2	25	6	3	9	-	-	_	-	-	-	29	5	34	30
Fever Hospital	-										1000					_
(Cairo)	2	3	5		-	-	-	-	-	-	-	-	2	- 3	5	7
Tanta	10	3	13	1	-	1	-		-	-	-	-	11	3	14	14
Qalyûb		-	-	-	-	-	-	-	-	-	-	-	-		-	-
Benha	6	2	8	-	-	-	-		-	1 -	1	2	7	3	10	11
Alexandria	59	30	89	5	-	5	-		-	29	6	35	93	36	129	70
Aswân	2	-	2	9	1	10	-	-	-	-	-	-	11	1	12	10
Zagazig	4	2	6	3	2	5	-	-	-	5	3	8	12	7	19	7
Mersa Matrûh	1	-	1	-	-	-			-	-	-	-	1		1	-
			-											-		
TOTAL	148	56	204	47	13	60	12	4	16	81	14	95	288	87	375	306
Compare in 1915	116	39	155	34	7	41	14	4	16	78	16	94	242	64	306	-

TABLE XXIII.-RETURN OF SICK.

TOTAL.	$\begin{array}{c} 925\\ 27\\ 1,650\\ 1,306\\ 336\\ 336\end{array}$	753 644 413 1,100	492 84	432 240	174 179	78 112 203	877 334 311 751	325
Port Said. (Infectious).	11111	1111	11	11	11	- -	1111	11
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Beni Suef.	32 22	1- 61 X X	33	36	110	° - °	11 4 9	=
Infectious.		8	11	11	11	111	1111	20
Qase el Chini.	209 345 362 362 81	370 368 254 256	245	158	× 1	10 68	261 281 212 212	- 33
Mersa Matroh.		1 1 4	11	1	- 11	.	°°	1
Qalyûb.	, 55 111 112 131 112 132	30.2 1	691	1 12	51.2	H 4 4	$-\frac{12}{9}$	35
Benha.	31 1 2 5 1 4 6 6 7 1 7 5 1 7 5 6 F	33 H 09 H	12	12	100	-	3: 3 18	520
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Damietta.	80,8,70,0	1925	25	10.01	10	10 01	12 12	. 14
Port Said.	141 139 139 139	33 33 35	61 X	39	11	10 11 00	58 15 47	27
.zəng	259 259 18 18 18	89 52 36 101	74 47	12	49	1 - 8	80 2 2 80	6 234
Alexandria.	157 6 191 233 233 149	148 125 49 370	. 821	85 81	8.8	883	179 18 52 137	30
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.N0	of st ritor and 		ease:	ease:		rd ease		::
SECTION	Medical : Alimentary : Diseases of stomach Tuber. peritonitis Dysentery Diarrhova and enteritis Liver Other diseases	Respiratory : Pneumonia Phthisis Pleurisy Other diseases	Circulatory : Heart Other diseases	Urinary : Nephritis Other diseases	Blood : Spleen Other diseases	Nervous : Brain Spinal cord Other diseases	Constitutional : Rheumatism Diabetes Senility Debility	Parasitio : Pellagra Malaria
4	M							

491	265 321	343 14,570	1,495	301 241	4,566 709 811 811 81 722 722 144 144 358 5,758	1,266	1,018	2,943 2,412	210	238	792	55,489	
11	11	1 28	1		1111111111	1	1	11	1	1	1	82	8,576
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	· · · ·	61.8	33	6.0 0	$ \begin{array}{c} 151\\ 10\\ 32\\ 68\\ 11\\ 68\\ 11\\ 68\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12$	31	1	20		1	6	763	118
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6	1 21	4	83	1 +	187 187 187 187 187 187 187 187 187 187	62	10	153	1	1	1	1 848	127
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⁹ ا	16	11 348	151	× 11 ×	260 24 33 33 33 33 210 210 210	88	58	37	10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	1,593	171
- 1	12	7 166	382	5 -	$^{11}_{16}$	60	8	12	14	5	18	1111.1	256
- *	2	20 858	10	3	$\frac{291}{346} - \frac{291}{6}$	28	82	126 116	4	11	00	2,367	216
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°1	1 4	11 747	31	11	$\begin{smallmatrix} 198 \\ 18 \\ 18 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 1$	9	10)	21 78	+	1	1	1.438	178
- 1	12.22	$16 \\ 265$	19	10 00	$\frac{349}{24}$	L	12	241 122	Π	10	C4	1,944	218
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11	- ~ ~	33 804	76 22	10 %	$\frac{73}{242}$	122	47	88 83	9	11	78	2,887	256
1 ***	11	$^{12}_{2,469}$	49	- 01	$ \begin{array}{c} 308 \\ 333 \\ 333 \\ 337 \\ 337 \\ 458 \\ 458 \\ 458 \\ 456 \\ $	72	120	217 246	10	6	6	5,483	401
19 24	146 52	1,689 1	222 106	33	954 174 82 188 82 192 192 192 192 192 192 192 192	299	240	511 350	48	99	562	9,989 5,483	1,587
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sis	::	ases	: :		Traumatic injuries Burns Bilharziasis Fistula in ano Liver abscess Hernia Hernia Appendicitis Vesical calculus	:	:	::	:	:	Relatives accompanying patients	TOTAL	ral ar
Ankylostomiasis Filaria		Lunatics Other medical diseases		ours : Malignant Non-malignant	Traumatic injuries Burns	:	:	::		Gymecological diseases	nyin	10 -	gene
loste a	aning : Alcohol Other poisons				Traumatic injuri Burns	:	:	ereal : Syphilis Gonorrhœa	:	dis	npa		derg
Ankylost Filaria	oning :- Alcohol Other p	tics	: ctures : Simple Comnon	Mali Non-	mati s urzia dla in dla in t abs ia orrh orrh ndic ndic r sur t sur	ic	ases	ilis rrho	/	gical	acco		un si
A	Poisoning :- Alcohol Other p	Lunatics Other me	ical : Fractures : Simple Compount	Tumours :- Malign Non-n	Trauma Burns. Bilharz Fistula Liver a Hernia Hernia Vesical Other s	halm	Dise	Syph	ifery	colo	ives		ation
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					the second second second second		
NAME OF HOSPITAL.	Number of Military Patients admitted (including Prisoners of War).	Number of Military Cases discharged Fit for Duty (or, if Prisoners of War, to Prisoners of War Camp).	Number of Military Cases discharged to Convalescent Homes, or Camps.	Number of Military Cases discharged to England.	Number of Military Cases transferred to other Hospitals,	Number of Military Cases which died.	Number of Patient-days for Military Patients (including Prisoners of War).
Alexandria Suez Port Said Port Said (Infect.) Tanta Damanhûr Mansûra	1,232 3,386 750 82 303 330 139		370 1,026 9 - 21 31 24 29		$43 \\ 948 \\ 41 \\ 3 \\ 13 \\ 69 \\ 9 \\ 9 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 $	63 22 17 	27,300 45,475 13,317 1,447 5,291 7,542 3,455 30,652
Zagazig Shibîn el Kôm Benha Mersa Matrûh Qasr el 'Aini Fever Hospital Beni Suef Faivûm	1,017 57 582 60 210 106 395 1,081	$816 \\ 50 \\ 469 \\ 59 \\ 166 \\ 55 \\ 279 \\ 582$	$28 \\ 3 \\ 13 \\ -63 \\ -14 \\ 118$		$ \begin{array}{r} 131 \\ ^4 \\ 66 \\ - \\ 33 \\ 28 \\ 101 \\ 360 \\ \end{array} $		20,633 1,290 10,644 797 3,544 2,649 7,191 15,500
Faryum Minya Asyût Sohâg Qena Isna Aswân	1,031 1,125 1,404 442 81 89 26	$ \begin{array}{r} 3326 \\ 742 \\ 247 \\ 18 \\ 72 \\ 13 \end{array} $					$\begin{array}{r} 13,350\\ 13,253\\ 24,068\\ 5,799\\ 1,555\\ 1,116\\ 372 \end{array}$
Total for 1916 Total for 1915	12,897 14,851	7,142	2,155	199 1,262	2,977	170 212	212,238 306,540
Total for 1914 (Sept., Oct., Nov., Dec.) Total from com-	536	438	-	10	74		8,107
mencement of war to end of 1916	28,284	12,039	9,924	1,471	3,867	396	526,885

TABLE XXIV .- ANALYSIS OF MILITARY CASES (1916).

TABLE XXV.—Number of Military Cases admitted to each Hospital from Commencement of War to the end of 1916.

			the second s				
NAME OF HOSPITAL.	Number of Military Patients admitted (including Prisoners of War).	Number of Military Cases discharged Fit for Duty (or, if Prisoners of War, to Prisoners of War Camp).	Number of Military Cases discharged to Convalescent Homes or Camps.	Number of Military Cases discharged to England.	Number of Military Cases transferred to other Hospitals.	Number of Military Cases which died.	Number of Patient-days for Military (including Prisoners of War).
Alexandria Suez Port Said Port Said (Infections) Tanta Damanhûr Mansûra Zagazig	2,967 5,752 2,837 98 1,251 1,025 699 1,696	$957 \\ 2,940 \\ 1,313 \\ 79 \\ 765 \\ 612 \\ 484 \\ 1,153 \\ \end{cases}$	$\begin{array}{r} 1,142\\ 1,067\\ 1,062\\ \hline \\ 262\\ 151\\ 129\\ 151\\ \end{array}$	$525 \\ 335 \\ 115 \\ - \\ 128 \\ 75 \\ 47 \\ 148 \\ 148 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$167 \\ 1,233 \\ 181 \\ 3 \\ 81 \\ 143 \\ 39 \\ 193 \\ $	$ \begin{array}{r} 137 \\ 53 \\ 61 \\ 1 \\ 5 \\ - \\ 14 \end{array} $	$\begin{array}{r} 84,381\\79,359\\56,715\\1,748\\28,661\\23,406\\17,357\\36,856\end{array}$
Shibîn el Kôm Benha Mersa Matrouh Qasr el 'Aini Fever Hospital Beni Suef Faiyûm Minya	$\begin{array}{r} 423 \\ 1,081 \\ 60 \\ 5,346 \\ 333 \\ 395 \\ 1,154 \\ 1,125 \end{array}$	$254 \\ 755 \\ 59 \\ 166 \\ 183 \\ 279 \\ 622 \\ 326$	$ \begin{array}{r}105\\141\\-\\5,147\\-\\14\\118\\415\end{array}$	30 38 30 1 1	$ 18 \\ 73 \\ - \\ 33 \\ 114 \\ 101 \\ 360 \\ *344 $	$-{3\atop{1}\atop{53\atop{36\\1}\\6\\11}}$	$11,186 \\19,289 \\797 \\90,138 \\7,198 \\7,191 \\16,440 \\13,253$
Asyùt Sohâg Qena Isna Aswân TOTAL	$ \begin{array}{r} 1,404 \\ 442 \\ 81 \\ 89 \\ 26 \\ \hline 28,284 \end{array} $	$ \begin{array}{r} 742 \\ 247 \\ 18 \\ 72 \\ 13 \\ 12,039 \end{array} $	-3 -13 -13 4 9,924	 1,471	571 158 54 - 1 3,867		24,068 5,799 1,555 1,116 372 526,885

YEAR.	Number of Beds.	Number of In-Patients.	Number of Days of Treatment.	Number of New Out-Patients.	Number of Out-Patients' Visits,		Total Cost of Maintenance.			Cost per Patient- day,
						L,E,	м.	L,E,	м,	м.
1908	2,263	31,802	556,543	-	_		-	-		_
1909	2,491	34,221	598,539	144,509	353,409	-	-	-		
1910	2,385	35,065	579,796	152,733	312,152	-		-	-	
1911	2,385	37,018	621,350	173,401	385,062	-	-		-	-
1912	2,346	38,887	614,921	192,227	424,707	77,992	867	33	245	127
1913	2,409	42,794	627,813	207,882	417,845	83,698	539	34	744	133
1914	2,485	44,914	681,680	179,338	346,673	92,189	050	37	098	135
1915	3,320	50,483	858,878	152.329	340,774	114,843	117	34	591	134
1916	3,825	55,489	946,557	178,788	392,961	123,379	860	32	256	130

TABLE XXVI.-COMPARATIVE ANNUAL STATISTICS.

2. GOVERNMENT DISPENSARIES.

The number of Government dispensaries managed by the Department of Public Health during 1916 was the same as in 1915, *i.e.* 44.

The dispensaries, however, at Sîwa Oasis, Baharîya Oasis and Dakhla Oasis were closed on the occupation of these oases by the Sennussi forces.

The number of patients treated free of charge in these forty-four dispensaries was 38,579 as compared with 41,258 in 1915, a decrease of 2,679.

This decrease was due to the closing of the dispensaries at Sîwa, Baharîya and Dakhla.

The total receipts for the year amounted to L.E. 589.555 milliemes as compared with L.E. 656.164 milliemes in 1915, a decrease of L.E. 66.609 milliemes.

This decrease in receipts was due to the same reason as the decrease in the number of patients treated gratuitously.

DISPENSARY.	Number of Patients.	DISPENSARY.	Number of Patients.
Rosetta El ^c Atf Ityâi el Bârûd El Dilingât Shubra Khît Baltîm (Burullus) Barrage Fariskûr		Brought forward Abu Qurqâs Wasta Dairût Manfalût Abu Tîg El Badári	23,387 1,797 1,846 943 2,385 786 425 1,425 1,235 1,235
Fel el Kebîr Kafr el Sheikh Fûa Abu Hummus El Santa Quweisna	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Akhmim	1,033 1,219 312 30 437 70
Shibin el Qanâtir Mataria (Menzala) Kafr el Dauwâr Saff Siba Jiba Siba	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Qûs <td>164 368 165 88 —</td>	164 368 165 88 —
Beni Mazâr Samalût Carried forward	4,714 934 23,387	Dakhla Oasis Kharga Oasis Total	464

TABLE XXVII.-OUT-PATIENTS TREATED GRATUITOUSLY IN GOVERNMENT DISPENSARIES DURING 1916.
DISPENSARY.	RECE	IPTS.	DISPENSARY.	RECE	IPTS.
	L.E.	м.		L.E.	м.
			Brought forward	346	274
Rosetta	, 13	896	Abu Qurqâs	15	610
El 'Atf	25	325	Wasta	9	29
tyâi el Barûd	13	677	Dairût	7	141
El Dilingât	19	677	Manfalút	26	140
Shubra Khit	12	465	Abnûb	4	105
Baltim (Burullus)	5	497	Abu Tig	18	550
Barrage	5	575	El Badâri	15	220
Fariskûr	9	371	Tema	25	640
fel el Kebîr	11	246	Akhmîm	10	183
Kafr el Sheikh	7	615	Girga	17	870
Pûa	17	78	Baliâna	5	775
Abu Hummus	1	648	Bassiûn	11	890
El Santa	21	554	Nage Hammådi	15	62
)uweisna	3	670	Dishna	27	277
Shibin el Qanâtir	22	24	Qûs	11	393
Iataria (Menzala)	22	370	Quseir	7	849
Kafr el Dauwâr	7	728	Idfu	8	195
El Saff	21	165	El Dirr	3	685
Biba	51	703	Siwa Oasis	_	-
tsa	5	896	Bahariya Oasis	-	435
3eni Mazâr	30	376	Dakhla Oasis	-	190
Samalût	16	718	Kharga Oasis	2	42
Carried forward	346	274		589	555

TABLE XXVIII.-DISPENSARIES' RECEIPTS, 1916.

3. SCHOOLS FOR DAYAS.

The six training schools for native midwives (*dayas*) continue to work well. As four of the matrons were absent on leave last summer and the schools were shut for this time, they only show the result of eight or nine months' work.

The question of the practicability of supplying *locums* during the holidays of the matrons another year is a question still undecided. The difficulties inherent to work of this sort make the choice of suitable substitutes for a short period most difficult.

BUILDINGS.

The school at Sohâg has been moved into a commodious house on the river front, as dangerous cracks appeared in the flats last occupied. There is sufficient accommodation in the building for a children's dispensary also, when the Provincial Council have sufficient funds to create a budget for this branch of work.

At Minya also serious cracks appeared during the high Nile and the re-opening of the school was somewhat delayed while temporary repairs were effected. It is expected that these will have to be properly attended to next summer, as the building is not considered dangerous and is, in other respects, suited for the work.

At Mansûra the school is now established in a house specially adapted for the *dayas*. It is in a central position in the town and most convenient.

At Zagazig extra accommodation is badly needed; it is hoped shortly to have more room by renting the adjoining flat now used as a girls' school.

ATTENDANCES.

The number of cases applying for the attendance of the school pupils independently of the town *dayas* steadily increases.

The total number of cases attended by the schools was 2,197.

The proportion of abnormal to normal deliveries was about 1 in 10 (176 out of 1,870).

The total number of visits to patients in their homes by the matrons and pupil dayas was 28,119.

Although in many cases the opposition to new methods is still very strong, especially among the old *dayas*, there is evidence that confidence is growing among the patients themselves in favour of cleanliness and skill.

During last summer the prevalence of typhus in the provinces added largely to the work of the *dayas*' schools, as the matrons were frequently called to attend cases of premature labour brought on by the fever, for which no treatment had previously been sought.

The analysis of abnormal cases shows practically the same class of complication as obtains in Europe, though perhaps transverse presentations are somewhat more frequent.

In addition to attendance on childbirth, the matrons have a large number of women seeking advice for gynæcological troubles; as many as 300 old and 90 new have attended in a month at one maternity centre. Any cases needing more than simple medicines and douching are recommended to go to the Government hospital.

As accommodation for one or two in-patients has been supplied, difficult cases can now be admitted. The appliances available at the school make the treatment by the doctor easier than in the patients' own homes and the cases form valuable teaching material for the pupils. The number of in-patients during the year was 31.

PUPILS.

130 dayas have been trained and taken their certificates this year. The candidates for the schools are improving in type. Younger and brighter pupils are coming in as the work is becoming better known, and it is gratifying to note that among those trained were a Syrian, an Armenian, two Greeks, and two Jewesses, who could all read and write, as well as a young Egyptian girl who had had some previous education, so it is hoped that gradually a better type of daya will exist in the larger towns.

The schools, besides training the pupils in their special work of midwifery, are also an educational centre, and are valuable as reaching a class of girls who do not attend ordinary schools. Most of the women on admission, being unable to sew, are taught sewing as well as washing, ironing and general housework.

Besides this, the visits to the patients in their own homes, which this year have numbered over 28,000, are of great value in promoting cleanliness. Also, the matrons often detect early cases of illness among the children in the houses where they visit and can advise the mothers to take them to the dispensaries, the two institutions thus working hand in hand.

Encouraging accounts of the work of past pupils are reported by doctors in different Markazes.

In five Mudîrîyas an improved selection of candidates has been rendered possible by the matrons personally visiting the larger towns of the province and making a preliminary list of women suitable for training, and a register of candidates is now being compiled in each province. At first the schools, being new institutions and their workings unknown, they were not understood by the *fellahîn*. The pupils then were mostly old women and there was some difficulty in getting any pupils at all, but it is gratifying to find that now there is competition for admission and applications are made ahead by candidates for training. As the number of women who can be admitted each year is limited, it is obviously desirable to get the best material possible, though the successful practice of the pupils after training seems to depend largely on the *daya* inheriting some relative's clientele.

GENERAL NOTES.

Much help has been given to the matrons by the doctors from Government hospitals and also by private practitioners in the towns; and in cases occurring outside the bandar by the Markaz doctors. The lectures still given by the hospital doctors are a great assistance to the matrons.

It is hoped that new schools will commence at Damanhûr and Faiyûm early next year, the preparations for opening being nearly complete.

It was intended to start a *dayas*' school in Beni Suef in 1917 in the building bought by the committee of the Dispensary Fund, but it is to be regretted that this scheme has been again postponed, the Provincial Council considering their financial position does not allow of the necessary expenditure.

The building at Asyût is being carried on and it is probable it will be finished by next winter, when it is hoped a *dayas*' school may be opened there.

The passing of a Midwives Act to control the work of *dayas* and midwives throughout Egypt is badly needed.

The *dayas* of the chief towns have been inspected and it is a testimony to the strong constitution of the Egyptian women that any of their patients survive their ministrations, though the number of patients applying for treatment for the after troubles caused by bad midwifery is sufficient evidence of their lack of skill.

In several cases where *dayas* were found blind or quite incapacitated their certificates were withdrawn.

Practically nothing, however, can be done to deal with the work of these women until there is some legislation for their control. Hence the urgent need for the passing of a Midwives Act.

It would be a great assistance if the Egyptian ladies would interest themselves in the dispensaries and maternity work in the provincial towns.

Much help could be given by the formation of a ladies' guild or club in each Mudîrîya town. This guild could supply small garments and old linen, etc. for the many destitute cases that come for treatment, as the best results are often hindered by lack of proper clothing and nourishment, which naturally cannot be supplied from Provincial Councils' funds.

Therefore it is suggested that the chief ladies of the towns might organize themselves to form benevolent societies to work in conjunction with the matrons of the maternity homes and dispensaries.

In view of the proposed scheme of utilizing the Memorial Fund to the late Lord Kitchener in establishing a medical college for women, it is hoped that a hospital for women may be shortly started in Cairo.

From the experience of other training schools for medical women in the East it is strongly urged that this hospital should at once be started, so as to have it well established and the necessary clinical material at hand by the time that it is possible to start the college and that there are candidates ready to enter.

This hospital should of course include a maternity charity, and as it would be run on harem lines would naturally reach a huge population which the present accommodation at Qasr el 'Aini does not touch.

As building is at the moment out of the question, a women's hospital and maternity could well be started in a rented house till after the war and would supply a much needed want by training educated midwives, etc.

Cases.	Tanta.	Zagazig.	Mansûra	Shebin.	Minya.	Sohâg.
Abortions	8	30	41	24	4	1
Deliveries	331	552	303	339	221'	124
B.B.A	11	21	19	29	85	54
Primipara	47	97	64	54	37	27
Abnormal or complicated	31	46	29	43	22	5
Premature births	18	24	18	12	10	5
Still-born	17	27	17	12	9	10
Deaths { Mother	1	-	1	2	1	2
Child	-	8	3	5	7	2
In-patients	10	6	6	8	1	-
Total number of cases	350	603	363	392	310	. 179
Total number of visits of matrons and dayas	4,143	6,945	6,477	3,862	2,913	3,779
Number of working days	250	- 318	335	259	208	230
Number of dayas trained	17	36	28	19	18	12

TABLE XXIX .- Schools for "DAYAS."

TABLE XXX .- NUMBER OF "DAYAS" WHO PASSED EXAMINATION AND THOSE WHO FAILED IN 1916.

					Passed.	Failed.	Total.
Tanta				 	17	† 2	19
Zagazig				 	36	-	36
Mansûra				 	* 28	†1	29
Shibîn el	Kô	m		 	19	2	21
Minya				 	18	1	19
Sohâg				 	12	-	12
		Т	OTAL	 	130	6	136

*1 Daya not examined. †1 Daya selected from Damanhûr in order to be appointed as a Staff Daya in the new school to be opened shortly there.

Number of 1	Egyptian	midwiv	es v	vho a	atten	ded	midy	vifer	y con	arse	in th	ie ma	itern	ity	
homes .															136
Number of t															
33	"	failed													6

TABLE XXXI.—Analysis of Abnormal Cases occurring among the 2,197 Attendances of the "Dayas" Schools, 1916.

	· Multi	ple .	Birti	hs.			Premature Births.	
Twins Triplets						 $15 \\ 1$	Viable	87
	Abnormal	Pr	esent	ation	8.		Complications.	
Difficult	breech					 12	Accidental hæmorrhage	4
						3	Post partum "	12
						5	Adherent placenta	9
						1	Contracted pelvis	-
Cord						 4	Hydramnios	1
Fransver						 22	Hydrocephalus	9
	nd hand					2	Hydatiform mole	i
Placenta						9	Monster	F
	previa					 11	E L	-
corceps						 **	D down of otherway	1
							D time I want to a second seco	-
							Ruptured perineum	-

Illnesses complicating Puerperium.

Pnerperal fever

Ovarian absee	88				 	1
Uterine tumou	ır				 	1
Heart disease					 	1
** **	and	hem	iple	gia]
Aneurism					 	1
Albuminuria					 	1
Pneumonia					 	1
Typhoid					 	2
Typhus					 	10
Plague					 	2
Fever (relapsi	ng, e	etc.)			 	6

Heart disease	 	 		1
	 	 	 	-
Puerperal fever	 	 	 	2
Typhus	 	 	 	2
Aneurism	 	 	 	_1
Ovarian abscess	 	 	 	1

Maternal Deaths.

4. CHILDREN'S DISPENSARIES.

All the dispensaries have been in full work this year, except two which were closed for a short period when structural repairs and painting were being done.

BUILDINGS.

At Beni Suef the committee of the Dispensary Fund took the occasion of a suitable offer to purchase a large house which is in a convenient position near the railway station and contains sufficient room for the school for *dayas* which it was intended to start in 1917. After a complete remodelling of the sanitary installation, the dispensary was transferred to the new building in May.

At Minya serious cracks in the building occurred, which necessitated extensive repairs, after which the whole dispensary was freshly painted.

At Asyût work has been recommenced on the new building after having been suspended since the summer of 1914. It is hoped that it may be finished and opened before the end of 1917, as the present hired house is in a bad state of repair. The new building is designed to accommodate a school for *dayas* also.

The plans for the new building at Faiyûm will shortly be put up for tender and it is hoped to get the work well under weigh this year on the site which adjoins the new Ophthalmic Hospital.

At Damanhûr it is hoped very shortly to open both a dispensary and a school in a new building which is being specially adapted for the purpose.

At Port Said and Tanta a small amount of painting was done.

All the other dispensaries are housed in hired buildings.

ATTENDANCES.

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The numbers attending daily are sufficient proof of the need of these establishments and that it was not merely the novelty of the work that attracted the patients at first. A slight falling-off in the number of patients from outlying villages in a few cases seems to be due to the present inconvenient train services, but in the totals for the year there is a steady increase. Many women who attended the dispensary when first opened are still coming with the more recent additions to their families. The total number of attendances at the dispensaries during the year was 388,810; of these, 72,223 were new, being an increase of 133,718 and 23,300 respectively on the figures for last year. There is much scope for further development in the formation of more branch dispensaries and it is hoped that these will be started in several of the provinces when increased funds and a more convenient railway time-table render it possible.

The seasonal curve of the different groups of illnesses (abdominal, chest, skin, etc.) seems to correspond for most of the provinces, but some districts seem more prone to certain diseases than others, *i.e.* bilharzia and rheumatism with heart complications are frequent in Beni Suef district, malaria in Faiyûm, favus and other skin diseases in Asyût.

DOCTORS' VISITS.

In addition to the services of the Medical Officers of the Government hospitals and Markazes in seeing and treating serious cases, thanks are also due to many private practitioners who attend regularly or when required at the dispensaries and others who prescribe for patients who are too late for the hospital out-patients. The help of these doctors is of great assistance and encouragement to the matrons in their work.

The Medical Officers from the ophthalmic hospitals also visit several of the dispensaries where the distance makes it difficult for the patients to attend both hospital and dispensary on the same day.

DRUGS.

The purchase of drugs still continues a difficulty, but arrangements are being made for next year, whereby they will be able to be bought in bulk through the Department of Public Health. This should ensure a great improvement in the quality, the present system of buying in the cheapest market being most unsatisfactory as regards the control of their purity.

DISPENSARY.	New Cases.	Old Cases.	Total Attendances.	Period.
Tanta Zagazig Mansûra Shibin el Kôm Port Said Giza Beni Suef Biba Minya Faiyûm	8,578 2,322 4,663 4,930 10,158 4,743 5,533 4,375 2,799 7,728 9,088 5,306	$\begin{array}{c} 29,415\\ 12,028\\ 22,664\\ 31,082\\ 40,018\\ 23,492\\ 25,934\\ 19,103\\ 18,418\\ 19,540\\ 60,688\\ 18,205 \end{array}$	$\begin{array}{r} 37,993\\14,350\\27,327\\36,012\\50,176\\28,235\\31,467\\23,478\\21,217\\27,268\\69,776\\23,511\end{array}$	297 days 286 " 296 " 297 " 301 " 283 " 283 " 294 " 294 " 294 " 294 " 290 " 286 " 298 "
Total in 1916 Total in 1914	70,223	320,587 202,088	390,810 294,689	-
Total in 1915 Increase over 1915	48,923 21,300	206,159	255,082 135,728	-

TABLE XXXII.-CHILDREN'S DISPENSARIES.

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TABLE XXXIII.-CHILDREN'S DISPENSARIES.

402 1,592 18,205 298 733 764 1,66080 75 5,306 23,511 Faiyûm. 2,850 3,533 588 244 9,088 60,688 69,776 286 1,324 511 38 Asyût. 1,916 19,540 27,268 290 780 ,534 2,676 7,728 73 727 22 Minya. 200 2,799 18,418 21,217 1148 225 994 130 294 13 96 Biba. 23,478 310 4,375 19,103663 873 204 2,266 47 12 294 Wasta. 31,467 1,118 503 5,533 283 22 1,0222,462 265 141 25,934 Beni Suef. 635 1,658 316 4,743 23,492 28,235 330 788 777 239 291 Giza. 10,158 40,018 50,176 950 106, 470 379 2,151 936 365 301 Port Said. 36,012 31,0821,054 1,196 299 1,490 125 705 4.930 201 61 Shibin. 4,663 596 584 2,170 167 1,119 22,664 27,327 296 27 Mansûra. 1 14,350 364 382 166 666 138 230 2,322 12,028 286 43 Zagazig. 4,040 37,993 1,107 888 538 1,875 8,578 29,415 130 297 Tanta. 1 Total number of new cases... : : : 1 : : : : : ÷ : : TOTAL ... : ÷ : ÷ : : ÷ Number of old cases : ł : : ; ÷ : Number of working days : ÷ : : : : CASES. : : ÷ : ÷ ; ÷ : ł : ÷ : ÷ : Infectious Abdomen Eyes ... Chest ... : Surgical General Skin

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III.-REPORT ON SECTION III.

OPHTHALMIC HOSPITALS.

These hospitals forming the subject of a separate annual report, the outlines only of the work done by them will be given here.

Hospitalization of Military Patients.—The various travelling units which were concentrated at Glymenopoulo and latterly at Gîza to provide hospital accommodation for 650 men were demobilized in February. The total number of patients admitted was .5,965, of whom about half were cases of wounds and about half were cases of sickness.

Statistics.—The number of out-patients treated at the various hospitals was 68,304; the total number of out-patient attendances was 849,366; the average number of visits of each patient was 13.4; the number of operations performed was 54,205; the number of in-patients was 2,454, to whom 57,282 diets were issued.

Government Permanent Hospitals.—The number of permanent hospitals is now ten. The Fayûm hospital was opened on June 5th. The provinces still unprovided with hospitals are Gîza, Qaliubîa, Qena, Aswân.

Provincial Council Permanent Hospitals.—Three permanent hospitals are maintained by the Provincial Council of Gharbîa at Mahalla el Kubra, Kafr el Zayât and Santa.

Government Travelling Hospitals.—The two hospitals originally endowed by Sir E-Cassel carried on work at Gîza, Kafr el Dauwâr and Qena.

Provincial Council Travelling Hospitals.—The Provincial Councils of Daqahlîa and Assiût each maintains a travelling hospital.

School Inspection and Treatment.—The school ophthalmic clinics at nine of the provincial primary schools have been carried on during the year satisfactorily.

	PROVIDED BY	MAINTAINED BY	DATE OPENED
Permanent :			
Tanta Assiùt Beni Suef Zagazig Mahalla el Kubra Mahalla el Kubra Damanhûr Shebîn el Kôm Minia	Government grant Public subscription and Government grant Gift by Badrawi Pasha Public subscription Provincial Council Public subscription Public subscription Provincial Council	" " " " Provincial Council Government grant " "	1908 1911 1912 1912 1913 1913 1913 1914 1914 1914 1914
Santa Santa Fayûm Travelling :—	" " " " " "	Provincial Council Government grant	1915 1916
No. 1 Camp 2 " Assiùt Daqahlia Trarelling Hospitals closed for Financial Reasons :	Sir Ernest Cassel Provincial Council """""	Sir Ernest Cassel Provincial Council """"	1904 1905 1912 1913
	Provincial Council	Provincial Council	$ \begin{array}{r} 1911 \\ 1911 \end{array} $

TABLE XXXIV .- Sources of Provision and Maintenance of Hospitals.

TABLE XXXV.-PERMANENT AND TRAVELLING OPHTHALMIC HOSPITALS.

Hospitals in existence : Travelling Permanent						0004	1808	OLAI	1911	2181	1913	1914	1915	1916
				1										
::	1	61		61	G1	01	61	61	3	4	5	4	I	4
:	1	1	1		1	1	1	1	61	4	1-	10	11	13
	2,954	4,210	7,327	27	7,446	1,794	12,092	14,342	20,488	28,029	40,670	50, 126	52,752	68,304
Total attendance of out-patients	15,039	50,680	94,204		146, 830	132,278	177,761	190, 247	236,411	341,211	544,267	686,012	735,919	849,366
Operations performed	1,282	2,480	5,846		6,794	6,426	9,930	11,486	14,322	21,315	30,648	40,710	42,146	54,205
In-patients	65	140		202	184	208	390	443	678	606	1,807	2,071	2,274	2,454
Details :														
Patients examined						19,614	22,373	25,514	31,274	43,668	62,233	75,398	71,930	94,447
Patients regularly treated			:	:		7,794	12,092	14,342	20,488	28,029	40,670	50,126	52,752	68,304
Incurable cases				:		4,550	2,302	1,776	2,620	7,200	9,544	10,554	7,765	9,871
Blind in one eye						1,189	2,116	2,438	3,196	4,115	5,360	6,425	5,637	7,042
Blind in both eyes						852	1,385	3,010	2,811	2,824	3,878	3,591	2,992	3,504
Trichiasis cases examined						8,159	10,060	7,507	7,871	13,176	17,329	21,624	19,225	22,214
" " operated on and cured .						2,262	3,128	2,022	3,933	6,942	11,700	16,542	19,149	26,094
New patients treated per age :														
Under 1 year			:			247	516	457	191	1,495	2,700	2,472	3,023	4,031
From 1 to 5 years						585	1,645	1,497	1,903	3,317	4,631	6,394	5,762	7,865
" 6 " 10 " · · · · · · · · · · · ·			:			902	1,442	4,469	2,101	3,210	4,786	5,634	5,229	6,985
" 11 " 15 "			:			849	1,294	1,475	2,051	3,056	3,799	4,570	5,651	6,275
., 16., 20.,						829	1,156	1,499	2,067	2,588	3,253	3,949	4,491	5,752
., 21., 40 .,						2,584	3,775	4,845	6,116	8,167	12,679	17,257	18,492	23,017
" 41 and over				:		1,798	2,206	3,100	5,589	6,196	8,822	9,850	10,104	14,379

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IV.-REPORT ON SECTION IV.

1. INFECTIOUS DISEASES.

The chief features to be remarked in connection with infectious diseases during 1916 are :--

- (i) The considerable increase in the case-incidence from typhus fever.
- (ii) The considerable increase in the case-incidence from relapsing fever.
- (iii) The large number of plague cases which occurred during the year and the large number of localities infected.
- (iv) A small outbreak of cholera.

(i) TYPHUS FEVER.

The number of typhus fever cases which occurred in Egypt during 1916 is nearly equal to the number of cases of this disease which occurred in the country during the previous three years. The following list shows the number of typhus cases and deaths reported during the last five years :---

	Y	EAR.		Cases.	Deaths.	Percentage
1912			 	5,380	1,658	30.2
1913			 	4,936	1,438	28.9
1914			 	9,508	2,533	26.6
1915			 	17,096	4,216	25.2
1916			 	30,507	7,095	23.2

TABLE XXXVI.-FIVE-YEAR COMPARISON OF TYPHUS FEVER CASES.

The continuous drop in the death-rate is probably the result of better reporting of the disease.

As last year, the greater part of typhus cases occurred in Lower Egypt. The Mudirîyas which suffered most from the disease were Gharbîya, in which 5,652 cases were reported, and Daqahlîya, where 5,268 cases occurred.

(ii) Relapsing Fever.

The number of relapsing fever cases which occurred in 1916 is the largest recorded in this country.

The following table shows the number of cases and deaths due to this disease reported during the last five years :---

	I.	YEAR.		Cases.	Deaths.	Percentage
1912				 220	19	8.6
1913				 342	45	13.4
1914				 211	28	13.1
1915				 761	72	9.4
1916				 10,494	826	7.8

TABLE XXXVII.-FIVE-YEAR COMPARISON OF RELAPSING FEVER CASES.

The increase of typhus fever and relapsing fever is the result partly of the depletion of the staff for war work and partly of the movement of native labourers employed on military works. The fall in the death-rate probably indicates improvement in the reporting of cases.

(iii) PLAGUE.

The total number of declared cases of plague in 1916 was 1,702 as compared with 235 in 1915. The number of deaths was 828, showing a mortality of 48.7 per cent compared with 120 or 51 per cent in 1915. This is the largest number of cases reported in Egypt in one year.

The following list shows the number of cases, deaths and localities infected during the five years in the past decade in which the disease was most prevalent.

	Y	EAR.		Cases.	Localities infected.	Deaths.	Deaths per cent
1907				 1,253	108	914	72.9
1908			411	 1,511	146	780	51.6
1910				 1,238	148	615	49.7
1911				 1,656	153	1.041	62.9
1916				 1,702	178	828	48.7

TABLE XXXVIII.-FIVE-YEAR COMPARISON OF PLAGUE CASES.

The Mudirîyas chiefly affected were : Faiyûm, in which 726 cases occurred ; Asyût 296 ; Minya 285.

The number of pneumonic cases which occurred in 1916 was 96 as compared with 178 in 1911 and 147 in 1910. Of these 96 cases, three occurred in Alexandria and 93 in Upper Egypt.

As already stated in the report for the year 1915, the services of the Director of the Epidemic Section were requisitioned by the military authorities. In April 1916 he returned to duty with the Department.

(iv) CHOLERA.

A small outbreak of cholera occurred in August among the troops operating in the Sinai Peninsula. The disease was contracted as a result of the occupation, after the battle of Romani, of territory previously occupied by the Turks. The great majority of the cases were contracted during the pursuit of the routed enemy.

15 cases were bacteriologically diagnosed as cholera, of which 2 died. The first case occurred on August 8, 1916, and the last on August 23, 1916.

The small extent of the epidemic was doubtless due to the prompt recognition of the disease and the efficient measures taken by the Army medical authorities to suppress it.

The outbreak was of particular concern to this Department in view of the large number of Egyptian workmen employed by the military authorities on contract and the consequent movement of time-expired men back to their villages. On the removal of the quarantine measures taken by the military authorities in Sinai a system of passenger control for returning workmen was introduced (this is still in force and has been of much use in limiting the amount of reimported infectious disease). In addition, all preparations for an outbreak of cholera in the country were at once completed. Steps were taken to obtain legal power for accelerated action and a new decree was put forward. It has not yet become law.

No case occurred west of the Canal.

In September 1916 a small outbreak of para-cholera took place among the patients in a military convalescent hospital in Alexandria. It was apparently spread by a carrier from Mesopotamia. The military medical authorities have taken steps to collate the bacteriological results in this outbreak with those obtained from cases of the cholera group in Mesopotamia.

The number of cases was from 60 to 70. No deaths occurred and there were no cases outside the hospital.

The views of the Egyptian International Quarantine Board on this outbreak are set forth in the *procès-verbal* of their meeting held on December 5, 1916.

The Department, believing that para-cholera is now a sufficiently defined class of disease has taken steps to have brought to the notice of the International Committee of Public Health, Paris, the questions of the possibility of arriving at an accepted definition of the disease and of the international measures which will in future require to be taken in regard to this disease. (a) NOTIFIABLE INFECTIOUS DISEASES IN GENERAL.

TABLE XXXIX.-NOTIFIABLE INFECTIOUS DISEASES.

× 1								-
Death	1	1	1	1	I	1	I	1
Cases.	1	1	1	1	I	I	I	1
Deaths.	44	16	I	61	00	10	I	75
Cases.	78	15	I	64	21	9	I	122
Deaths.	61	+	I	1	I		I	-1
Cases.	96	55	I	10	36	1	. 1	197
Deaths.	1	35	1	19	1	1	1	54
Cases.	01	19	I	32	1		I	96
Deaths.	62	24	I	18	104	236	61	914
Cases.	1,089	509	1	163	2,348	3,420	41	7,570
Deaths.	894	348	54	53	1	11	28	1,388
Cases.	2,011	1,088	408	94	1	44	264	3,910
Deaths.	562	292	7	30	12	16	I	616
Cases.	1,998	676	11	82	73	65	4	2,873
Deaths.	343	17	8	13	6	23	1	413
Cases.	1.046	108	11	39	69	29	1	1,302
Deaths.	624	72	23	164	22	01	1	890
Cases.	1,494	303	80	354	203	60	1 •	133 2,437
Deaths.	118	63	01	∞	1	1	1	133
Cases.	331	12	1	19	24	10	1	397
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	Cairo	Alexan	Damie	Port S	Suez	Ismaili	Wester	
	Deaths, Cases, Deaths, Deat	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		$ \begin to the first term of ter$		

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ERA.	Deaths.				1	
CHOLERA.	Cases.	1 1111111111	1	111111	1	
SPINAL	Deaths.	оч 	01	· · · · · · · · · · · · · · · · · · ·	00	
CEREBRO-SPINAL MENINGITIS.	Cases.	≈	01	°°	33	
	Deaths.		1	111111	1	111111
SCARLET FRVER.	Cases.		33		1	N
	Deaths.	·	01	111111	1-	111111
PLAGUE.	Cases.	· · · · · · · · · · · · · · · · · · ·	00	111111	1	111111
siNG.	Denths.	III ^I IIIIII	1	01 10	12	
RELAPSING.	Cases.	10 I I I I I I I I I I I I I I I I I I I	28	1 32.02	83	
US.	Deaths.	2323333333333333333333333333333333333	1,045	173 173 173 173 173 173 173 173 173 173	992	134 52 56 30 30 70
TYPHUS.	Cases.	$ 614 \\ 846 \\ 901 \\ 371 \\ 571 \\ 177 \\ 1$	5,652	$\begin{smallmatrix} & 822\\ & 757\\ & 757\\ & 1,810\\ & 1,035\\ & 1,035\\ & 1,035\\ & 1,035\\ \end{smallmatrix}$	5,268	618 574 79 320 320 320 320 322 352
DID.	Deaths.	±₀, ,	15	9	10	4
TYPHOID.	Cases.	61 01 10 11 01 01 01 01 01 01 01 01 01 01	37	34	34	14
UERIA.	Deaths.	11 11 11 11	26	1 1001 2000	37	00 00 -0
DIPHTHERIA	Cases.	11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	62	98.28 E	63	1 12 15 12 12 12 12 12 12 12 12 12 12 12 12 12
LIES.	Zeaths.	945 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	186	14 516 161 33 15	743	3 1 1 2
MEASLES.	Cases.	1,677 $1,677$ $10,105$ $10,$	1,824	231 231 332 332 332 332 332 332 332 332	1,309	°°°°°
POX.	Deaths.	- 7899 - 4989 - 4989	125	82 833 619 83	295	on 0110−1
SMALLPOX.	Cases.	80 0 828 828 828 828 828 828 828 828 828 82	830	26 263 66 66	819	6110.84a
		1111111111	:		:	1111111
PROVINCE AND DISTRICT.		Gharbiya Province :- Tanta Esheikh Kafr el Sheikh Mahalla el Kubra Shirbin Kafr el Zaiyât Disûq Pusûq Pusua Fuwa Burullus	TOTAL	Daqahlíya Province : Mansûra Simbilhâwein Mit Ghamr Dikirnis Aga	TOTAL	Beheira Province : Damanhûr Shubra Khit Ityői el Barûd Rashid Kôm Hamâda Abu Humus Dilingât

TABLE XXXIX.-NOTIFIABLE INFECTIOUS DISEASES (continued).

				- 4	1 -				
1111	1	111111	1	11111	1	1111			1
1111	1			11111	1	1111		1111	1
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1111	1	111111		11111	I	1111		1111	1
1111	64		1	11111	I	1111	1		1
1111		11111	1		14	0401	13	1111	1
1++1	1	111111	1	6.51	21	10 18 18	32		4
1111	13	+	4	11111	1	1111	1	30	31
1111	107	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	5 II	16	1 ⁸	19	36 5 198	267
28 15	502	8887+4 1	127	136 159 104 72	516	106 35 9	181	8 ° 8 8	IHI
285 355 88	2,843	109 191 94 14 224 8	640	786 808 327 341	2,847	535 535 63 63	830	105 78 436 285	904
1111	9	1 1 6	8	¹⁵ 3	5	1111			15
	19	24 1 1	27	1 10.3 2	36	°°	00	$-\frac{29}{49}$	79
1111	12	10 01 	1-	1°21	27	1 1 66	2	-100 00	18
-	25	13	17	12 16 4 4	52	Ξ.,	13	- 15 16	36
1111	9	8 10 m m	100	16 16 28 4	82	99 	75	$-\frac{101}{59}$	163
1111	21	$\frac{151}{27}$	309	102 82 16	310	22 - 3 145	170	142 29 29 29	282
4-	50	4 11	12	4 0	6	, , ,	03		1
31	100	2961 1 3961 1 39	114	28 53 8 H	89	+:: 	+	01 00	6
	:		:	:::::	:		:		
	:		:		:		:	,	
	TOTAL	· · · · · · · · · · · · · · · · · · ·	TOTAL		TOTAL		TOTAL	alyábiya Province : Benha Shibin el Qanâter Tûkh Qalyûb	TOTAL
Kafr el Dauwâr Mariût Ramleh Siwa Oasis	To	arqfya Province: Zagazig Minyet el Qamh Bilheis Hihya Faqùs	To	mifiya Province. Shibin el Kôm Minûf Quweisna Åshmûn	To		To	orin Qan	To
l Da		rrqiya Provi Zagazig Minyet el Q Bilbeis Hihya Kafr Saqr Faqùs		mifiya Provin Shibin el Kôr Minûf Quweisna Åshmûn		za Province :- Giza Enbåba El saff		el el	
fr e niût mlej		rqfya Zagazi Minyet Bilbeis Hihya Kafr S Faqûs		fiya inûf la . twei hmi		Pro za . Ai Sal		biya nha ibin kh. lyûl	
Ka Ma Ra Siv		Sharqiya Province:- Zagazig Minyet el Qamh Bilbeis Hihya Faqûs		Minifiya Province :- Shibin el Kôm Minûf Quweisna Åshmûn		Giza Province :- Giza En 'Aiyât El Saff		Qalyábiya Province :- Benha Shibin el Qanâter Tûkh Qalyûb	
		8		P		9		9	
									6

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TABLE XXXIX.-NOTIFIABLE INFECTIOUS DISEASES (continued).

			-	42 —				
ERA.	Deaths.	111	T		I	1111111	I	1111
CHOLERA	Cases.	111	I	111	1	111111	I	- 1
SPINAL	Deaths.	61	61	67 67	61		I	
CEREBRO-SPINAL MENINGITIS.	Cases.	1 1	61	61	63		1	
FEVER.	Deaths.	111	T	- 111	1	111111	1	
SCARLET FRVER.	Cases.	111	Ι	111	1	111111.	I.	
	Denths.	103 111 126	340	618	89	865 - 1988 999 - 1988 - 1988	127	49 47 2
PLAGUB.	Cases.	229 256 241	726	76 104 2	182	118 40 93 93 93 93 19	285	71 113 110 2
SING.	Deaths.		1	111		1 00 4 60 V	17	
RELAPSING.	Cases.		1	17	25	28 19 11 11 13 12 13 13 13 13 13 13 13 13 13 13 13 13 13	98	- ³
US,	Deaths.	12 21 21	45	101	57	21 21 21 20 21 21 21 21 20 21 21 20 21 20 21 20 21 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	87	192 18 55
TYPHUS.	Cases.	24 31 67	122	134 21 3	158	45 151 106 106	303	438 48 296
DID.	Deaths.	e	6	11.00	10	×	×	52 52 52
TYPHOID.	Cases.	31	34	1133	53	\$	24	104 10 1
ERIA.	Deaths.	23 17	49	1 1 01 01 00	18	01 0 41	17	n 4 00
DIPHTHERIA	Cases.	47 33 21	11	4 co co	30	 1 1 − 0 − 4 00	43	\$0.01-
.ES.	Deaths.	30 vc H	14	35	40	4 2 1 1 2 4 4 1 1 2 4 4 1 1 2 5 4 1 1 1 2 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	53	4019
MEASLES.	Cases.	44 7	61	517	12		195	90000
POX.	Deaths.	ра 	01	111		11111	14	200
SMALLPOX.	Cases.	1	1 10	1			36	45 77 13
	PROVINCE AND DISTRICT.	Faiyûm Province: Faiyûm Îtsa	TOTAL	Beni Suef Province : Beni Suef Biba	Torat	Minya Province : Minya Abu Qurqâs Samalût Beni Mazâr Maghâgha	TOTAL	Asyât Province : Asyût Asyût Manfalût

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				- 43	-			
1111		11111	I	111111		111	1	-
1111	1	11111	1		1	111	1	1
1111	1	11,111	1	111111	1		1	91
1111	1	11111		111111	1		1	139
1111	1	11111		111111		111	I	x
	1		61	111111	1	111	1	207
1111	144	1 1 1	40	1 3	4		1	828
1111	296	11 11 11 11 11 11 11 11 11 11 11 11 11	50	+ +	5	61	63	1,702
1111	1	11111	1	11 45 1 1 1 1 1	281	47	60	862
1.11	30	1 1 13	16	1,435	1,738	285 111	396	10,494
172 68 19	572	113 34 119 119 18	673	11 107 107 107	737	24 8	32	7,095 10,494
640 87 87 87	1,852	1,844 1,844 289 62 62	2,657	361 716 89 673 440 175	2,454	1 # ³³	67	30,507
01	46	211 22	31		6	1	1	1,092 30,507
∞	130	e 11 23	81	6 1 30	34	1 2	9	3,442
1 1 22	57	10-13-33	13	00 00 10 00 01 01	33	1 1	5	747
²	\$2.	17 13	42	51 × 2 × 1 × 2	44	10 64	1-	1,889
1811	64	- ¹³	106	28 - 20 20 20 20 20 20 20 20 20 20 20 20 20 2	221	31	120	3,614
- 33 66	167	113	6	84 9 127 27	302	201 66	267	7,746
	53	4.8 0101	44	1212 8 8 8 13 13 13 13 13 13 13 13 13 13 13 13 13	78	=	13	802
	144	15 10 8	-84	856 866 80 80 80 80 80 80 80 80 80 80 80 80 80	285	0,0101 0,0101	53	2,972
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	:	:::::	:		:	:::	:	:
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Abu Tig Badàri Abmàb Dakhla Oasis .	To		Ē	Qena Province :- Qena Isna Uuxor Qûs Dishna Nag ^e Hammi	E	Aswán Province : Aswân Idfu Dirr	I	D T
ho		roria		rorii		Pron		RAN
bu adâr bnû akh		rga Provin Sohâg Tahta Akhmîm Girga Balyana		ua Prov Qena Isna Luxor Qûs Dishna Nag' H		wán Pro Aswân Idfu Dirr		9
ARAD		Girga Province :- Sohág Tahta Akhmim Girga Balyana		Sun of the second		Asu		

The following diseases were also recorded :--

TABLE XL.

		Di	sease.			Cases.	Deaths.
Chicken-pox				 	 	297	1
Whooping o	200	gh		 	 	542	97
Domotitio				 	 	1,941	23
Malaria .				 	 	394	65
Anthrax .				 	 	28 29	97 23 65 24 19
Leprosy .				 	 	29	19
Malta fever				 	 	5	2
Bilious feve				 	 	4	2

(b) PLAGUE.

TABLE XLI.-DETAILS OF PLAGUE CASES.

					1997 - 1997 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 -	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the second second	20128				
		.:	Nev	V CASI	68.	Hospital.		ng.		THS OU		
Town or District.	GOVERNORATE OR PROVINCE.	Existing.	Bubonic.	Septiermic.	Pneumonic.	Deaths in H	Cured.	Remaining.	Bubonic.	Septiezmic.	Pneumonic.	TOTAL.
				Egy	 ptians	. 1		1				
Alexandria Cairo Port Said Kafr el Zayât Minûf Shibin el Kôm Qalyûb Embâba El 'Aiyât El Saff Itsa Sinnûris Beni Suef Wâsta Minya Abu Qurqâs Beni Mazâr Maghâgha Mallâwi Mallâwi Sohâg Nag' Hammâdi Nag' Hammâdi		4 4 1	$\begin{array}{c} 31 \\ 1 \\ 24 \\ 1 \\ 12 \\ 6 \\ 4 \\ 7 \\ 17 \\ 1 \\ 198 \\ 173 \\ 176 \\ 69 \\ 83 \\ 2 \\ 55 \\ 106 \\ 36 \\ 2 \\ 16 \\ 4 \\ 88 \\ 88 \\ 35 \\ 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ \end{array}$		$\begin{array}{c}1\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{1}{ 1 } + \frac{1}{ 1 } + \frac{1}{ 13214133} + \frac{2}{ 2 } + \frac{1}{ 1 } + \frac{5}{141} + \frac{1}{ 1 } + \frac{1}{ 1$	2 1 1 1	$\begin{array}{c} 45\\ 1\\ 28\\ 3\\ 12\\ 8\\ 4\\ 10\\ 18\\ 3\\ 1\\ 256\\ 241\\ 229\\ 76\\ 104\\ 2\\ 93\\ 118\\ 40\\ 9\\ 19\\ 6\\ 110\\ 113\\ 71\\ 2\\ 46\\ 1\\ 2\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 1\\ 4\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$
	TOTAL	11	1,250	33	55	478	871	-	221	79	41	1,679
Alexandria		1	16	For	eigner	s. 5	12	-	-		-	16
Cairo Port Said Suez Shibîn el Kôm	Ξ		$\begin{array}{c}1\\4\\1\\1\end{array}$	1111	1111	$-3 \\ -1 \\ 1$	1 1 1	111	1111	1111	1111	$\begin{array}{c}1\\4\\1\\1\end{array}$
	TOTAL	1	23	-	-	9	15	-	-	-	-	23
GRAND	TOTAL	12	1,273	33	55	487	886	-	221	79	41	1,702

Number of cases, 1,702; number of deaths, 828; number of cured, 886.

XLIII.-MONTHLY INCIDENCE OF CASES AND DEATHS OF PLAGUE DURING 1916.

T	Desths.		8 1 61 1	14 2		$13 \\ 340 \\ 89 \\ 89 \\ 89 \\ 127 \\ 12$	828	1	20	1	758	1
TOTAL.	.воевО		32 °61 1 2 2 2	0 FI 4		285 285 296 296 296 296 296 296 296 296 296 296	1,702	1	124	1	1,578	1
	Deaths.		**	111		1111111	00	0.4	00	4.3	1	1
DIDC.	Cases.		1 1 1 1			11111111	33	0.5	.0	2.3	1	1
·V.	Deaths.					1111111	1	0.1	1	1.4	1	1
Nov.	Cases.		1 3				4	0.5	4	3.2	1	1
BER.	Deaths.		1111			1111111	1	1	1	1		1
OCTOBER.	Cases.			111			1	9.0	1	0.8		1
.F.	Denths.					1111111	1	0.1	1	1.4	1	1
SEPT.	Cases.	-	4			1111111	4	0.2	Ŧ	3.2	1	1
UST.	Deaths.		1111			+	1	0.1	1	1.4	1.	1
AUGUST.	Самея.		+	111	-		9	0.3	19	4.0	1	9.0
.X.	Deaths.		8 4 1	1 3		-1 - 1 - 00 - 10 - 1	28	3.4	15	21-4	13	1.1
JULY.	Саяея.		1 1	°		~ ~ ~	46	2.7	21	16-9	25	1.6
UR.	Deaths.		10	1.1		10^{-10}	61	9.2	19	27-1	60	6-2
JUNE.	Cases.		¹⁹ 8	0.01		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	180	10.6	37	29-8	143	9.1
Υ.	Deaths.		15 - 5 -	9		1 13 25 25 2	209	25.2	26	37.1	183	24.3
MAY.	Cases.		1 8 1 38	0.04		299299	436	25.6	36	58-9	400	25.3
11.	Deaths.		°			$^{9}_{23}$	305	36.8	24	2.8	303	39-9
APRIL.	Cases.		[∞] [−]			$^{28}_{-111}$	601	35.3	6	7.2	592	37.5
CH.	Deaths.		1111			15:0.321 1	151	18-2 35-	1	1	151	19-9 37
MARCH.	Сакек.		1111	111		$\begin{array}{c} -147\\ 151\\ 152\\ -24\\ 1143\\ -2\end{array}$	337	19.8	1		337	21.3
ABY.	Deaths.		1111	1		³¹ 12 1 2 1 8	33	3.9	1	1.4	32	4.2
FEBRUARY.	Cases.		1111			8 21 19 - 4	53	3.1	1	0.8	52	2.6
-	Deaths.		1111			0, 0, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	17	2.1	1	1.4	16	2.1
JANUARY.	Cases.		111	°1		1 9 ¹³ 6 1 1	31	1.8	000	2.3	28	1.8
-				111				1 :	:	:	1 :	:
				:::			:	:	:	Percentage to Total of Lower Egypt		Percentage to Total of Upper Egypt
	VINCE			:::		111111111	TAL	otal	1	er E		er E
	GOVERNORATE OR PROVINCE.	LOWER EGYPT.			UPPER EGYPT.		GRAND TOTAL	Percentage to the Grand Total	1 :	Ilow	:	Upp
	3 OR	Ea		:::	RE		RAN	Grat	ypt	1 of	vpt	l of
	RATE	WEB			PPE		9	the	Eg	Lota	Eg	Lota
	ERNO	Io	es :-	1==	D	1 114 1111		to	Wer.	to	oper	to
	Govi		orate andr Said	biya biya ufiya ûbiy		Su Su Su		tage	f Lo	tage	0.01	tage
			Governorates :- Alexandria Cairo Port Said Suez	Provinces : Gharbiya Minûfiya Qalyûbîya		Provinces : Giza Faiyûm Benî Suef Mînya Asyût Girga Âswân		reen	Total of Lower Egypt	reen	Total to Upper Egypt	reen
			69	A		4		Pe	Tot	Pe	Tot	Pe

Suez " — 1 — Cairo " … — 2 — Kafr el Zayât … … Gharbîya … 3 2 Minûf … … Minûfiya … 12 7 Shibîn el Kôm … … Qalyûbiya 4 — Imbâba … … Qalyûbiya 4 — Imbâba … … … Qalyûbiya 4 — Imbâba … … … 1 1 1 El Saff … … … 1 1 1 Sinnûris … … … 18 5 Sinnûris … … … 229 103 Beni Suef … … … 104 61 El Wâsta … … … … 118 38 Abu Qurqâs … … … 118 38 Abu Qurqâs … … … 110	Town or D	Hstrict.			Province		Cases.	Deaths
Port Said ,,, — 32 19 Suez ,,, — 1 — Cairo ,,, Gharbiya, 3 2 Kafr el Zayât , Minûfiya, 3 2 Shibîn el Kôm , Minûfiya, 9 7 Qalyûb , , Qalyûbiya 4 — Imbâba , , , 9 7 Qalyûb , , 1 1 El Saff , , 1 1 Sinaûris , , , 256 111 Sinaûris , , , 229 103 Beni Suef , , , 229 103 Beni Suef , , , 104 61	Alexandria Gov	ernor	ate		_		61	35
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El Saff 1 1 El 'Aiyât 18 5 Giza Faiyûm 256 111 Sinnûris Faiyûm 256 111 Sinnûris 229 103 Beni Suef Beni Suef 76 28 Biba 104 61 El Wâsta 18 38 Abu Qurqâs 93 56 Minya 93 56 Minya Samâlût Maghâgha	T TAF			1000				4
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Abu Qurqâs 40 16 Beni Mazâr 9 7 El Fashn 9 7 Maghâgha 9 7 Asyût 9 7 Maghâgha 9 7 Asyût 9 7 Mallawi 71 46 Dairût 110 47 Mallawi 113 49 Manfalût 12 2 Girga 46 39 3 Fahta 1 - Sohâg 1 - Nag ⁶ Hammâdi 4 3				1000		1000		
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Nag^{e} Hammâdi Qena 1 1 Juxor $Qena$ 4 3					** **		2	1
Auxor							1	
Annan 0 1					Qena		1	1
Aswân Aswân 2 1							4	3
	Aswan				Aswan		2	1
TOTAL 1,702 828				1				-

TABLE XLIII.-NUMBER OF CASES AND DEATHS OF PLAGUE.

TABLE XLIV .- RECAPITULATION OF PLAGUE STATISTICS, 1899-1916.

	YEAR	-	 Cases.*	Deaths.*	Deaths per Cent
1899			 93	45	48.0
1900			 127	60	47.2
1901			 205	102	49.5
1902			 481	291	60.0
1903			 303	160	52.7
1904			 854	501 .	58.6
1905			 266	181	68.0
1906			 631	475	75.2
1907			 1,253	914	72.9
1908			 1,511	780	51.6
1909			 513	207	40.5
1910			 1,238	615	49.7
1911			 1,656	1,041	62.9
1912			 881	441	49.9
1913			 654	304	46.5
1914			 219	111	50.7
1915			 235	120	51.0
1916			 1,702	828	48.7
т	OTAL		 12,825	7,176	56

* Including deaths out of hospital.

TABLE XLV.-MONTHLY COMPARISON OF PLAGUE CASES AND MORTALITY DURING THE YEARS 1914, 1915, AND 1916.

.

	Died out of Hospital.	1	14	59	122	86	43	8	1	1	1	1	I	341
	Recovered.	20	6	109	235	295	151	48	8	4	4	1	33	886
1916	Died in Hospital.	10	19	92	183	123	36	20	I	1	I	1	60	487
	Admissions to Hospital.	24	39	278	479	350	137	38	5	4	1	03	3	1,361
	Existing from Previous Year,	12	1	1	I	1	I	1	1	1	1	1	I	12
	Died out of Hospital.	0.	60	1	8	9	11	63	03	1	I	1	7	47
	Recovered.	61	1	1	1	27	48	19	60	1	1	1	1	104
1915	Died in Hospital.	01	4	1	13	14	16	9	1	3	1	60	10	73
	Admissions to Hospital.	63	5	64	36	51	44	14	60	6.0	1	4	32	188
	Existing from Previous Year.	1	I.	L	I	I	1	I	1	I	1	I	1	1
	Died out of Hospital.	5	67	1	3	14	9	4	I	1	61	1	1	38
	Recovered.	e0	3	1	5	20	17	24	11	6	П	63	1	107
1914	Died in Hospital.	1	1	I	Ŧ	30	11	11	B	60	01	1	¢ι	73
	Admissions to Hospital.	13	3	33	11	53	29	34	19	II	5	4	1	181
	Existing from Previous Year.	1	1	I	I	1	1	I	I	1	1	I	1	
		1 :	:	:	:	:	:	:	:	:	:	:	:	:
		:	:	:	:	:	:	:	:	:	:	:	:	:
		:	:		:	:	:	÷	:	• :	:	:	;	LAL
	MONTH.	:	:	:	:	:	:	:	÷	:	:	:	:	ANNUAL TOTAL
	MO	:	:	:	:	:	:	:	:	:	:	:	:	IVUN
		January	February	March	April	May	June	July	August	September	October	November	December	ANY

- 47 -

35.8%

38.8%

40.3%

Percentage of deaths in hospital to admission.

1916

1915

1914

(c) MALARIA.

The following table shows the number of cases of the disease which have come under the notice of the Administration during the year :---

						Number of Cases.								Number of Cases
Governorates :-	_								Bron	ght .	foru	ard		 345
Alexandria						 8	Provinces							
Cairo					••••	 65	Deschlin							
Damietta Port Said	•••	••••				 11	Daqahliy Qalyûbiy		•••					 3 67
0			••••			 111	Giza		•••					 30
Suez	••••		••••			 	Beni Su							 12
Provinces :							Faiyúm							 12 7 5
01 15						10	Minya	•••	•••		••••	•••		 1
Gharbiya			••••			 12	Asyút	••••			•••	••••	•••	
Minûfîya	•••				••••	 67	Girga	•••				••••	••••	 $\frac{1}{8}$
Sharqiya	•••				•••	 61	Qena	•••			•••	••••		 . 3
Beheira						 9	Aswân							 3
	Car	ried	forw	ard		 345					То	TAL		 493

TABLE XLVI.-CASES OF MALARIA NOTIFIED DURING 1916.

2. PILGRIMAGE.

In 1916 the Grand Cherif of Mecca declared the independence of the Hejaz from the Ottoman Empire. Consequently the route to the Hejaz was opened to Egyptian pilgrims. Owing to the difficulty of providing ships for pilgrims, the Ministry of Interior issued Circular No. 30 on August 24, 1916, in which it was laid down that the Government had only provided ships for 1,000 pilgrims and that applications to make the pilgrimage should be submitted before September 3, 1916, and that such applications would be accepted according to the order in which they were submitted.

1,076 pilgrims left for the Hejaz in addition to the Mahmal escort, which amounted to 728 persons.

They embarked at Suez for Jedda on September 24, 1916, on two steamers, the Neguileh and Mansourah.

The Mahmal and its escort were embarked on one of His Majesty's cruisers.

To safeguard the pilgrims against possible infection with cholera they were all vaccinated against this disease by Dr. Wilson of the Qasr el 'Aini School of Medicine.

Owing to the fact that Medina had remained in Turkish hands, no visit there was made.

At the beginning of the pilgrimage the Quarantine Board declared it infected, but later on, on the receipt of information *re* the satisfactory state of health in the Hejaz, the Board again declared it "net."

The health of all the pilgrims was good. On arrival at Suez, only 7 were found sick and admitted to Suez Hospital-2 from dysentery, 3 from fever and 2 surgery cases.

The result of the further observation in their villages was very satisfactory, as all the pilgrims were traced and observed.

3. PASSENGER AND IMMIGRANT CONTROL.

TABLE XLVII.-PASSENGERS WHO LANDED AT ALEXANDRIA FROM SHIPS COMING FROM CHOLERA-INFECTED COUNTRIES.

	3		1009020	NOI SHO	LASSENGERS FUE UALING.							-		V	ALEXANDRIA.	DRIA.	ALEXANDRIA.		-	TRANSIT PASSENGERS.	LAN	- Andrews	CRS.				TOTAL.		
	-	1st and 2nd Class.	1 2nd 88.	0	3rd Class.		1st and 2nd Class.	1 2nd	Class.	3rd	I Class.	1	1st and 2nd Class	2nd C	lass.	Brd	Class.		1st a	1st and 2nd Class.	-	Brd	3rd Class.	lst a	nd žno	1st and 2nd Class.	_	3rd Class.	
	Found	.banoî toN	Percentage found.	.band.	Not found.	Percentage found.	Found	Not found.	Percentage found.	.bano ⁴	.banol toX	fercentage	-puno _H	.banoi toN	Percentage found.	Punog	.bouol toN	.bauol	.bano'	Percentage	Found.	.bauol 30N	Percentage	Found.	.banol toV.	Percentage found.	Found.	.banoi toN	Percentage
			8			%			8	1		8			- 96	1	1	1.2	1	8			8		1	8			18
:	сь ;	-	22	976	225	76	17	1	100	3,459	83	52	68	1	100	394	12	- 16	1	1		1 1	66	94	-	g	4,831	330+	+ 93
1	*	1	100	19	60	92	1	1	I	161	+	8	1	1	1	19	-	100	1	1	-	1	1	+	1	100		t-	96
:		1	100	83		96	4	1	100	174	œ	98	10	1	100	481	16	96	1	1	1	1	1	18	1	100	1,040	22	26
-	-	1	100	01	1	100	1	1	100	1	1	100	6	1	100	230	-	100	1	1	-	1	- 100	14	1	100	240	1	100
		1	100	1	1	100	1	1	1	01	1	100	19	1	100	129	1	100	-	1	100	1	1	21	1	100	132	1	100
1	-	1	100	93	+	92	1	1	100	8	11	86	9	1	100	427	12	- 16	1	1	-	1	83	90	1	100	594	8	8
+	13	1	100	735	6	98	8	1	100	205	1	66	12	1	100	2	12	98	1	- 10	100 33		- 100	98	1	100	1,678	22	98
4	т і	1	100	179	1	100	31	1	100	212	1	100	32	1	100	338	eı	66	1	04	-	-	1	22	63	26	794	01	66
-	13		100	11	1	100	45	1	100	107	1	100	45	1	100	186	61	98	-	1	-	1	1	103	1	100	364	61	66
	17	1	100	8	1	100	53	I	100	46	1	100	10	1	100	157	-	100	1	I	-	1	1	124	1	100	269	I	100
	64 :	1	100	14	1	100	t.	1	100	63	1	100	90	1	100	688	-	100	1	1	-	1	1	17	1	100	965	1	100
:		1	1	1	1	100	T	i.	. [55	1	100	+	1	100	83	-	100	1	1	1	-	1	+	1	100	46	1	100
TOTAL	8	-	88	2,284	244	88	189		100	5,188	107	56	309	1	100 4,	4,020	13	98	04	01	50 47	01	95	580	0	66	11,539*	418	56

Total Passengers, 1st, 2nd and 3rd Classes [Found 12,119 (Not found 421 Total (general) ... 12,540

r

> Percentage of Passengers Found, 96.

7

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				lst	AND 2ND CI	A88.	3rd C	LASS AND	DECK PASSENC	ERS.
				Total.	Found.	96	Total.	Found,	Not found.	%
Cairo			 	 7	7	100	38	37	1	97
Alexandria			 	 1	1	100	18	17	1	94
Interior			 	 4	4	100	27	26	1	96
Port Said			 	 31	- 31	100	216	215	1	99
	Т	TAL	 	 43	43	100	299	295	4	98

TABLE XLVIII.—Statistics of Passengers who landed at Port Said from Ships coming from Cholera-infected Countries during 1916.

NOTE .- One transit passenger to Port Said not found is not included above.

Total number of passengers			
Total passengers found			339
Total passengers not found Percentage found			5 98
Percentage found	 	 	20

TABLE XLIX I	PASSENGERS	ARRIVING	AT SUEZ	PORT	DURING	1916.
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					Passenger nder Arré			SENGERS UN MENTRY MI		NGERS PORTS.	GENERAL
	Mon	тн.		Traced.	Not Traced.	TOTAL.	Traced.	Not Traced.	TOTAL.	PASSENGERS OTHER PORTS	TOTAL.
January February March April May June July August September October November December			 	$\begin{array}{c} - \\ - \\ 15 \\ 22 \\ 10 \\ 24 \\ 83 \\ 7 \\ 38 \\ 4 \\ 43 \end{array}$		-	-2 -6 1 -14 -8 18 11 13 -		$ \begin{array}{c} - & 2 \\ - & 6 \\ 1 \\ - & 4 \\ - & 8 \\ 19 \\ 11 \\ 13 \\ - \\ \end{array} $	$\begin{array}{r} 328\\121\\77\\152\\94\\214\\161\\209\\130\\110\\247\\93\end{array}$	$\begin{array}{r} 328\\123\\92\\180\\105\\252\\185\\300\\156\\159\\264\\138\end{array}$
	T	OTAL	 	270	2	272	73	1	74	1,936	2,282

Number of	passengers	arrived	during the year	1913	 	 10,071	
"	"	"	"	1914	 	 13,420	
"	"	"	**	1915	 	 4,354	

DAMIETTA.

The monthly number of ships arriving at Damietta was as follows :----

						Brough	it fo	rward	 6
January	y				-	July			 4
Februa	ry				-	August			 2
March					-	September			 17
April					1	October			 7
May					3	November			 -
June					2	December			 -
Co	urrie	d for	wara	<i>l</i>	6			Total	 36

All these ships arrived from Cyprus. They had 295 sailors on board.

4. VACCINATIONS.

	SUCCESSFUL	VACCINATIONS.	SUCCESSFUL RE	VACCINATIONS
	1914-1915	1915-1916	1914-1915	1915-1916
November and December	81,815	80,662	636	1,032
January 1 to October 31	409,117	395,178	4,423	5,308
TOTAL	490,932	475,840	5,059	6,340

TABLE L.-Successful Vaccinations and Revaccinations.

5. "MULIDS."

In 1916 the Department gave its opinion regarding the holding of six *mulids*, the period of celebration of which varied from three to fifteen days each.

No other *mulids* were celebrated owing to the Circular of the Ministry of Interior dated August 27, 1914.

6. BARBERS.

(a) Specially trained in first aid.

No barbers were trained in "first aid" in 1916 and no "first aid chests" were issued.

(b) 421 barbers were given sanitary permits during the year.

V.-REPORT ON PUBLIC HEALTH LABORATORIES.

The laboratories attached to the Department of Public Health include the following :--

- The Central Laboratories (formerly Hygienic Institute), consisting of bacteriological and chemical sections.
- 2. The Vaccine Institute.
- 3. The Antirabic Institute.
- 4. The Serum Centrifuging Laboratory.

The name of the Hygienic Institute has been changed by Departmental Order No. 92 of November 28, 1916, to that of Public Health Laboratories.

1. CENTRAL LABORATORIES.

The total number of examinations made during the year in these laboratories was 21,397 as compared with 19,591 in 1915. Of these examinations, 9,529 were made for the military authorities, compared with 7,111 during 1915.

As stated in last year's report, during 1914 the presence of large bodies of troops in Egypt, with the creation of numerous hospitals in Cairo for the reception of the sick and wounded from the Gallipoli Peninsula, necessitated the provision of facilities for bacteriological diagnosis on a very considerable scale, and such bacteriological equipment as was available in the military stores was almost exhausted at once by the sudden demand. The Hygienic Institute supplied the Army with a large amount of glass, culture media, etc.; but it soon became evident that the stock of these materials in the Institute would not stand the strain if distributed to various military laboratories, and as it was not possible to obtain further supplies in any reasonable time from Europe, it was decided that, at any rate until military laboratory equipment could be obtained from England, it would be more economical to centralize the work as far as possible. With this object the services of the Hygienic Institute were placed at the disposal of the military authorities by the Director-General, and early in September the Institute was constituted the Central Bacteriological Laboratory for the Army work of the Cairo district.

During 1916 this work was continued, a Medical Officer of the R.A.M.C. being attached to the Laboratories until the month of November. Towards the end of 1916 the military authorities were enabled to arrange for most of the routine bacteriological diagnosis work of the Cairo military hospitals to be carried out in their own laboratories, so that the Public Health Laboratories will be relieved of a large amount of routine military bacteriological work.

During the year certain alterations were made in connexion with the general working of the laboratory. Owing to the difficulty in the past in obtaining suitable men as laboratory assistants a system has been begun of employing boys who have just left school and are able to write and read Arabic. These boys will serve an apprenticeship and it is hoped by this means that more suitable material will be available from which to choose the future laboratory assistants.

With regard to the staff, under the existing conditions it has been considered advisable to postpone the appointment of another second class bacteriologist until after the war.

The post of one of the chemists who was called up for military service in 1915 still remains vacant.

(a) BACTERIOLOGICAL SECTION.

In addition to the usual routine examinations made for Government hospitals and Government Services throughout the country, some 1,000 examinations were carried out for private patients.

With regard to these latter specimens, as stated in last year's report, all samples where the necessity for a bacteriological examination is of importance from a public health point of view, or where, on the recommendation of the Medical Officer of Health, an examination is desired, were examined free as part of the routine work, so that only a few special examinations (45) were made during the year, fees for which amounting to L.E. 79 being collected.

The routine examination for the Wassermann reaction of the blood of patients admitted in the Lunatic Asylum has been continued. These statistics in the hands of Dr. Warnock, Director of the Luna y Division, are giving valuable information and may possibly help in clearing up some obscure points in the ætiology of insanity (see Dr. Warnock's annual reports for detailed results).

The following table gives a list of the examinations made under their several headings of "Government," "Private" and "Military."

NATURE OF EXAMINATION.	Government.	Private.	Military.	TOTAL.
Cholera	31			1.05
	31 390	T	154	185 390
	7	- 19	176	202
	218	689		
Diphtheria		38	2,334 408	3,241
Malaria and relapsing	2,820			3,266
Agglutination reaction for enteric	794	139	481	1,414
" " dysentery	-	-	35	35
" " Malta fever	18	6	7	31
Cultural examinations for enteric	10	5	- 2,656	2,671
" " dysentery (and microscopic)	6	11	1,225	1,242
Wassermann reaction	839	7	259	1,105
Films for gonorrhoea and spirochata pallida	629	6	977	1,612
Sputum for tuberculosis	114	14	316	444
Urine for albumin, sugar, or both	13	-	10	23
" bilharzia ova	91	2	5	98
Anthrax	9	-	_	5
Miscellaneous	29	10 .	101	140
Grand Total	6,018	946	9,144	16,108

TABLE LI.

The specimens examined for diphtheria include a large number from carriers, many of these examinations being made in the course of a very complete search for carriers in one of the military camps. As the Central Bacteriological Laboratory (Cairo) for the military authorities—in addition to carrying out the usual routine examinations for the various military hospitals the laboratories have investigated various points of special interest and have given assistance in making the necessary arrangements for the decentralization of the military work. Standard emulsions of different organisms for agglutination purposes were issued to various military laboratories, as well as tubes, media and other essentials as far as the stock of the laboratories would allow.

Several investigations have been carried out on points of interest cropping up in connexion with the routine work.

The results of bacteriological examination of the cases of "Enterica" carried out on behalf of the Army are being made the subject of a separate report.

At the request of the Central Administration a bacteriologist from the laboratories was present regularly for a considerable period at the inspection of public women at the *Bureau des Mœurs* and specimens for microscopic examination were taken from 632 cases. These are being separately reported on.

Reports on an outbreak of cholera and one of para-cholera were sent to the military authorities; also experiments were carried out and the value of bisulphate tablets as a means of disinfecting Army water bottles reported on.

Bacteriological examinations were also made for various Government Services and reports were submitted on samples of milk, fruit, etc., sent for analysis. Examinations were carried out for the Cairo Inspectorate of samples of water and ice, as well as of aerated waters prepared by local firms. A certain number of disinfection experiments were also performed, especially in connexion with cholera.

Investigations associated with an outbreak of pellagra amongst the Armenian refugees at Port Said necessitated periodic visits of one of the staff to the camp as well as the installation for part of the time of a small laboratory there and the residence in the camp of one of the junior bacteriological staff as well as a clerk from the Laboratory. Preliminary notes were written and submitted to the Director-General and statistics and data collected for a final report. A large number of chemical, bacteriological and blood examinations made in connexion with this work are not embodied in the present report but will be the subject of a separate communication.

Anti-Scorpion Serum.—During the year, eleven reports were received on the use of anti-scorpion serum. The results of all the reports received since this serum was first used in 1906 are as follows :—

AGE.	Total Number of Patients treated.	Number of Deaths,	Percentage of Deaths.
From 0 to 5 years	153	27	17.64
" 6 to 10 "	115	7	6.08
" 11 to 15 "	73	2	2.74
" 16 to 20 "	65	1	1.54
Over 20 years	264	-	-
Cases for which no age was given	16	-	-
TOTAL	686	37	5.39

TABLE LII.

(b) CHEMICAL SECTION.

The following chemical analyses have been performed during 1916 :---

		MAN Halâw		BUT	TER.		MI	LK.		5	d8.	
SAMPLES RECEIVED FROM	Water.	Narcor Alk		Genuine.	Adulterated.	Genuine.	Adulterated.	(kind of milk not stated).	Abnormal.	Drugs, etc.	Miscellaneous	TOTAL.
Government Administrations General Parquet Private persons Military	87 	51 99 	56 97 4	39 9 2 10	6 7 -2	1,983 -16 16 1	705 3 21	6 1	8		$ \begin{array}{r} 104 \\ 9 \\ 1 \\ 64 \end{array} $	3,088 222 22 358
GRAND TOTAL	317	167	157	60	15	2,000	729	7	8	52	178	3,690

TA	The	C 123	- T T	
- 1 A	. FS I	1. H.L.		

In addition to the above the following chemical examinations have been carried out:-

Distilled water					 	 ·	 5
Ice						 	 1
Tinned milk for	Cen	tral	Stor	es	 	 	 5
Human milk					 	 	 1
Condensed milk					 	 	 1

Milk Analysis.—The daily analysis of milk on behalf of Cairo City Health Inspectorate has been continued during 1916. A summary of the results (which are included in the preceding table) is appended.

TABLE LIV					100
	LAI	$D = L_{L}$	E 1	11	ν.

DESCRIPTION.	Number.	Percentage.
Genuine	1,970	74
Adulterated (skimmed, watered, or both)	695	26
Skimmed	367	13.7
Watered	221	8.3
Skimmed and watered	107	4
Abnormal	7	0.26
Doubtful (kind of milk not stated)	4	0.14

One sample of milk contained added cane sugar.

The following is a table of the miscellaneous analyses:-

PTLA.	DIT	3 T 3	\$7.
14	BLF	1 11	٧.,

	Government.	Military.	Parquet.	Private
Bread	 5	2	_	_
	 11	16	4	1
Edible oils and fats	 43	3	4	-
Aerated waters, etc	8	1		-
Various foodstuffs and beverages	29	9	1	-
Alum and alumino-ferric	4	11		-
Bleaching powder	2	14		-
· · · · ·	 1	-	-	-
	 -	1	-	-
Powder from German shell	 -	1	-	-
Urine	 	1	-	-
	 1	5		
TOTAL	 104	64	9	1

Establishments of Standards.—Sixty-seven analyses of genuine cow's milk from individual animals were made during the year, the animals being milked dry in the presence of a member of the staff. The results of these and previous analyses are to be published shortly.

(c) WATER SERVICE.

In the Annual Statistical Report of the Department for 1915 it was stated that : "with a view to the hygienic control of water supplies in Egypt, a special Water Service was formed by the Department early in the year, and was placed in charge of the Director of the Hygienic Institute with the collaboration of the Chief Engineer of Municipalities and Local Commissions. It is intended that this service will undertake the regular inspection of all public water supplies, whether these are in the hands of the Government, Municipalities, Companies, or private individuals, and will concern itself with all questions relating to water supplies in Egypt."

For various reasons—mainly connected with the European war—it has not been possible for the Department to develop this service, so that as yet there is no provision for a regular or adequate inspection of the public drinking water supplies of the country.

It is important that this state of affairs should be frankly recognized, as the fact that the Department has nominally created a "Water Service" for the control of the supplies gives the impression that these supplies are being regularly inspected and adequately controlled.

The present position of the question is as follows :----

Early in 1915 the Department, recognizing the urgent necessity of a regular and adequate control of the public water supplies and the desirability of a Service which would interest itself especially in the various problems connected with drinking water supplies in Egypt, decided on the creation of a Water Service.

No special staff for this purpose was at the moment available, but it was arranged that the Director of the Hygenic Institute should be in charge of the Service, with the collaboration, for engineering questions, of the Chief Engineer of Municipalities and Local Commissions. Bacteriological and chemical analyses, except in the case of Alexandria and the Suez Canal Company's supplies, were to be carried out in the Hygienic Institute, Cairo, where a post of second class bacteriologist was provided. Under the existing conditions it has been, however, thought advisable to postpone filling this post until after the war; and as it has not been possible to provide any special staff for the purpose of inspection, collection of samples, etc., the inspections have had to be made in person by the Director of the Hygienic Institute and the Chief Engineer of Municipalities, and as the time of these two officials is already fully occupied the Water Service naturally suffers.

Under the present conditions this state of affairs is to some extent perhaps unavoidable, but as soon as circumstances permit every effort should be made to put this Service on a sound basis.

The provision of safe drinking water supplies is now universally recognized as a fundamental public health measure, and in a country liable to infection with cholera is absolutely vital, if the population is to be protected from large outbreaks.

Although a great deal has been already accomplished by the Department of Public Health in the provision of water supplies for the larger Egyptian towns, this is only a beginning and much remains to be done.

The supplies, even of Cairo and Alexandria, leave much to be desired, and most of the smaller towns in Egypt are as yet unprovided with filtered supplies, the inhabitants taking their water generally from very questionable if not highly polluted sources.

Although the Water Service has been in existence for so short a time, its influence on the efficiency of many of the supplies is already evident, and a good beginning has been made. All the larger supplies have been visited and are being reported on. Where necessary, repeated visits have been made and suggestions for the improvement of the existing conditions or for necessary modifications drawn up.

All consignments of alum or "alumino-ferric" to be employed for the clarification of water are now examined, both for their content of available aluminium sulphate and for absence of arsenic, and the different sands employed are examined in the Laboratories for their suitability for use in filters. A regular weekly examination is made of the Rod el Farag, Gîza and Me'âdi supplies and a daily bacteriological examination of the water from the Cairo supply, as supplied in town.

A regular bacteriological examination of the ice supplied in Cairo has been instituted and the very necessary examination of aerated waters on sale both in Cairo and the Provinces has been begun, although the available staff is not sufficient to deal with this question on any large scale. The results obtained already, however, show that grossly polluted aerated waters are sold in the country.

During the years 1915 and 1916, since the creation of the service, a total of 2,850 bacteriological and 716 chemical examinations of water, ice, and mineral waters have been made. This amount represents the maximum which can be carried out by the present staff.

The result of two years' working has amply justified the existence and emphasized the need of a Water Service, and it is to be hoped that, as soon as conditions permit, means will be found for its extension, with a view, not only to the control and improvement of existing supplies, but also to the study of the many problems connected with drinking water in Egypt.

The number of analyses of water and ice made for all purposes during the year are as follows :—

Bacteriological.	Number of Samples.	Examined for Total Bacteria.	Examined for Lactose Fermenters
Cairo :-			
Rôd el Farag supply <th< td="" th<=""><td>$447 \\ 259 \\ 336$</td><td>447 259 336</td><td>447 254 336</td></th<>	$447 \\ 259 \\ 336$	447 259 336	447 254 336
Daily samples of tap water in Cairo	311	311	
Heliopolis supply Minya hospital well	$\frac{1}{3}$	$\frac{1}{3}$	$ \begin{array}{c} 1 \\ 3 \\ 1 \\ 2 \\ 27 \\ 9 \\ 9 \\ 9 \end{array} $
Imbåba (old well in Markaz garden)	$ \begin{array}{r} 3\\1\\2\\27\end{array} $	$ \begin{array}{c} 3 \\ 1 \\ 2 \\ 27 \end{array} $	1
Giza Aquarium	2	2	2
Military supplies Private "	27	21	21
Private "	9	9	9
Ice	181	181	181
Тотал	1,586	1,586	1,270
Chemical.			
Public supplies Military ,,	87 230	=	=
Тотац	317	_	-

TABLE LVI.

In connexion with the military operations in Egypt, a large number of analyses have been made of waters from desert wells, both in the Eastern and Western areas. A detailed list of these is included in the "Report of the Work done in the Central Bacteriological Laboratory (Hygienic Institute), Cairo, during the Year 1916," which has been furnished to the military authorities.

2. VACCINE INSTITUTE.

During 1916 the number of doses issued has considerably increased as compared with the quantity supplied in the preceding year.

The amounts issued during the last six years are as follows :----

							Doses.
19	911	 	 	 	 	 	 532,836
49	912	 	 	 	 	 	 576,210
19	913	 	 	 	 	 	 771,361
19	914	 	 	 	 	 	 1,025,896
19	915	 	 	 	 	 	 961,665
19	916	 	 	 	 	 	 1,222,600

8

and show, except for 1915, a steady increase in the annual issue of vaccine.

The issue for 1916 was made up as follows :--

						Doses.
Public Health Inspectors .			 			 321,070
Extra to Public Health Inspe	ecto	rs	 			 350,630
Egyptian Army			 			 24,940
March CW. P.			 			 2,420
Minister of Dilantian			 			 10,065
Datama Danastraant			 			 0 005
Con Annal Commence						 2,600
D						 2,660
Alexandeia Maniainality						 100,000
Miscellaneous gratis (includio		Brit				 326,355
8 1 A						 58,880
312 11 1					-	 20,595
Allocentation and an a			 			
			m			
			To	TAL		 1,222,600

Owing to the steady increase in the annual demands for vaccine, it has been found necessary to extend this Institute. During the year a new block was added, consisting of a laboratory for general bench work and for preparing and tubing the vaccine, a storage and packing room and an office for the clerk of the Institute.

The method of storing the lymph at a temperature of 2° C. has proved most satisfactory, and lymph which had been stored at this temperature for over two years, experimentally tried on children, was found to give perfect vesicles.

3. ANTIRABIC INSTITUTE.

In 1916, a total of 789 persons were treated in the Institute. From this numberthe following deductions should be made :---

- 5 persons who ceased to attend for treatment without satisfactory reason, or whodied, during the course of treatment, of a disease other than rabies.
- 164 persons whose treatment was discontinued as being unnecessary, the observation of the animal for a period of ten days or more having shown it to be non-rabid.
- 24 persons whose treatment, although completed, must be considered valueless, the animal inflicting the bite having been proved healthy by rabbit inoculation.

The statistics, therefore, comprise 596 patients, an increase of 100 over the number treated in 1915. It is worthy of note that the maximum number of patients received in the Institute was 767 in 1912; but of these 136 came from Syria, leaving a total of 631 patients of Egyptian origin. This year's aggregate of 596 patients closely approaches the absolute maximum attained in 1912, and indicates either a real increase of rabies in Egypt, or at least a disquieting increase in the number of suspected animals.

I.-MONTHLY INCIDENCE.

The monthly incidence of the 596 cases dealt with in the statistics is shown below :---

				Р	ersons.					P	ersons.
January	 	 	 		48	July	 	 	 		35
February	 	 	 			August	 	 	 		62
March	 	 	 		64	September	 	 	 		62
April	 	 	 		51	October	 	 	 		44
May					56	November					52
June	 	 	 		52	December	 	 	 		43

It may be remarked that the double maximum shown in the above figures coincides, as regards the month of March, with the rutting season, which leads to the congregation of animals, and as regards the months of August and September with the commencement of the Nile flood.

II.-TOPOGRAPHICAL DISTRIBUTION.

The 596 persons treated may be subdivided as follows :---

Egyptians	*******			 	 	 	538
Foreigners Foreigners	resident in	Egypt		 	 	 	54
Foreigners	not resident	t in Egyp	at .	 	 	 	4

Their place of origin was :---

Governorates :					Persons,	Provinces :				1	Persons.
Cairo	 				 64		 	 	 		27
Alexandria Suez Canal	 ••••	••••	••••	••••	 40	Giza					20
Damietta	 				 $\frac{10}{5}$	Beni Suef Faiyûm					14
Provinces :						Minya	 	 	 		8
Qalyûbiya	 					Girga					11
Sharqiya Daqahliya	 				 $\frac{52}{82}$		 		 		13 4
Minûfiya Gharbîya	 					Abyssinia					5

III.-CLASSIFICATION OF ANIMALS INFLICTING THE BITES.

The injuries to the 596 patients were inflicted by :---

				 	 	 	 in		cases.
Cats				 	 	 	 	14	33
Wolves				 	 	 	 **	16	99
Monkeys				 	 	 	 	2	
Donkeys				 	 	 	 	9	**
Horses				 	 	 	 33	2	
Camels				 	 	 	 	3	**
Mongoose				 	 	 	 	1	
Rabid hun	nan	bein,	gs	 	 	 	 33	5	**

IV .- POSITION OF THE INJURIES.

51 cases were bites on the head; 345 cases were bites on naked skin, of which 154 were serious and 191 slight; 200 cases were bites through clothing.

V .- NOTES ON THE ANIMALS INFLICTING THE BITES.

1. It is to be noted that the number of persons bitten does not correspond to the number of animals causing the bites reported by the Veterinary Service, as in several cases one animal caused the injury to more than one person.

2. As a result of their observation by the Veterinary Service, 163 animals, having bitten 164 persons, were found to be non-rabid.

3. Experimental inoculation of rabbits undertaken at the Institute showed that 22 animals (21 dogs and 1 cat), having bitten 24 persons, were healthy.

4. In a certain number of cases, definite diagnosis could not be established and these cases are considered as suspect. The details are as follows :---

194 animals escaped and could not be traced.

43 animals were killed and the carcases destroyed.

95 carcases of animals arrived at the Institute in a state of decomposition and no investigation was possible.

15 animals were declared suspect by Veterinary Inspectors.

8 animals remained suspect, the rabbit inoculation being inconclusive.

The total of suspected animals is therefore 355.

5. Rabies was considered to be proved in the case of 51 animals, having bitten 102 persons. The diagnosis was determined by :---

Veterinary Inspectors in the case of 24 animals (21 dogs, 2 donkeys, 1 cat), having bitten 43 persons;

Rabbit inoculation in the case of 27 animals (26 dogs, 1 wolf), having bitten 59 persons. As regards the wolf, definite diagnosis was established by inoculation of a rabbit with the brain of one of the persons bitten and dying of rabies.

6. In the case of 13 animals, having bitten 29 persons, positive diagnosis of rabies is presumed by the death of one or more of the persons bitten.

VI.-METHOD OF TREATMENT.

No change was introduced, during the year, into the method of preventive vaccination described in the 1915 Report. A modification was, however, made in the serotherapeutic method used in cases of bites on the head.

Some explanations will be of interest.

Antirabic serum may be used in four different ways.

Dr. Marie works on the principle that when the virus is introduced into an organism, in unfavourable conditions, the virus confers immunity by the humoral reactions which it produces. He considers that the addition of antirabic serum to the virus of rabies creates such unfavourable conditions for the virus. The proportions of serum and virus may be calculated so as to give :—

A neutral mixture of virus-serum. Experience proves that this mixture does not confer immunity, as it does not enable animals to resist an inoculation with pure virus. It is therefore ineffective.

A virus-serum with an excess of serum. The results are unsatisfactory; no immunity is conferred, owing, no doubt, to the fact that the excess of serum prevents the action of the vaccine.

A virus-serum with an excess of virus. The result are more satisfactory; a temporary immunity is rapidly created.

Dr. Babes works on a different principle. He saturates the organism with a large quantity of anti-bodies by means of injections of pure antirabic serum; the immunity thus created allows the use both of a greater quantity of virus, and of stronger virus, in vaccination. The results appear to be very satisfactory.

In view of these facts, and having regard to the difficulty met with in the preparation of the virus-serum with an excess of virus, it was decided, at the beginning of 1916, to inject persons suffering from serious bites on the head with 15 or 20 c.c. of pure serum at the beginning of the treatment. Simultaneously, the usual series of vaccinating emulsions are injected into the other side of the abdomen; the injections of vaccine alone are then continued in doses very much greater than those employed in the usual treatment. This method has given satisfaction.

VII.—STATISTICS.

In accordance with the practice in other antirabic institutes, the statistics only comprise deaths occurring more than fifteen days after the treatment was completed.

Amongst the persons treated in 1916 there occurred five deaths. Table LVII attached gives the names and other particulars concerning each of these cases. The corrected mortality rate, representing the cases in which the treatment failed, is therefore 0.80 per cent.

In addition to the above, it is necessary to record the deaths of eleven other persons who died either during treatment or less than fifteen days after its completion. The gross mortality, comprising all deaths, is therefore 2.69 per cent. Included in the eleven deaths above mentioned is the patient No. 7,327. According to the report of the Public Health Inspector, this case died of rabies, but it is interesting to note that the rabbit inoculation of brain of the dog which was stated to have bitten the patient proved negative. Possibly the wrong animal was sent to the Institute.

Table LVIII gives a classification of the cases treated and the mortality rate.

TABLE LVII.-NOTES ON PATIENTS WHO DIED IN 1916.

		- 61 -			
Place of Death.	El Atawi.	Sehwag.	Shanawan.	El Zaatrak.	Qasr el Aini.
Dute of Death.	March 16 :	April 26:- 75 days after the bite. 54 ", " treatment.	June 27: 59 days after the bite. 37 ., " treatment.	June 9: 41 days after the bite. 18 ", " treatment.	October 9: 39 days after the bite. 17 ,, " treatment.
Dates of Treatment.	Jan. 23- Feb. 12.	Feb. 11- March 2.	April 30- May 20.	May 1- May 21.	Aug. 31- Sept. 21.
Date bitten.	Jan. 21.	Feb. 10.	April 28.	April 28.	Aug. 30.
Bitten by	Dog. Diagnosis impossible.	Dog. Diagnosis impossible.	Dog. Diagnosis impossible.	Dog. Diagnosis impossible.	Dog. Diagnosis impossible.
Nature and Number.	2 severe. 2 slight,	1 severe. 5 slight.	1 very severe.	1 severe.	2 severe. 4 slight.
Position of Injuries.	Right fore-arm.	Forehead.	Left leg.	Right hand.	Head, neck.
Place where the Accident occurred.	El Atawi. Fàris- kûr district, Da- qahliya.	Sehwag. Ashmûn district, Minû- fiya.	Shanawan. Shibin el Kôm district, Minôfiya.	El Zaatrak. Fâ- riskûr district, Daqahliya.	Tel el Kebir. Za- gazig district, Sharqiya.
Sex.	Ė	i	Ë.	Ŀ	f.
Age.	12	ŝ	60	12	9
NAME OF PATIENT.	Salama Salem el Mus- sawi.	Awad Afifi	Taha Abd el Kader Mo- barek.	Labiba el Nadi	Om Mohamed Mohamed
Serial Number.	6672	6697	6872	6879	7139

- 61 -

-	1			INJURIES ON THE HEAD,			INJURIES ON NAKED SKIN.				SH CL	CS OTHING.	TOTALS.			
					Treated.	Died.	Mortality per Cent.	Treated.	Died.	Mortality per Cent.	Treated.	Died.	Mortality per Cent.	Treated.	Died.	Mortality per Cent.
Class	A				6	0	0.0	32	0	0.0	21	-0	0.0	59	0	0.0
"	в				6	0	0.0	29	0	0.0	8	0	0.0	43	0	0.0
"	C				39	2	5.1	284	3	1.0	171	0	0.0	494	5	1.0
					51	2	4.0	345	3	0.8	200	0	0.0	596	5	0.80

TABLE LVIII.-RESULTS OF ANTIRABIC TREATMENT IN CAIRO DURING 1916.

Class A.—The animal causing the bite was proved to be rabid by the development of rabies in animals bitten, or by experimental inoculation.

Class B.—The animal causing the bite was declared to be rabid by a veterinary surgeon. Class C.—The animal causing the bite was suspected of rabies.

4. SERUM CENTRIFUGING LABORATORY.

Arrangements were made for re-centrifuging and bottling the cattle plague serum stored in demijohns, the necessary supplies of bottles having, owing to the war, been with difficulty obtained.

17,239.5 doses (50 c.c.) of cattle plague serum have been issued on the demand of the Veterinary Service.

The amount of serum remaining in stock at the end of the year was 252,963 doses in bottles, together with 6,363 litres in demijohns, the whole representing a total of approximately 367,500 doses.

VI. REPORT ON MEDICAL COMMISSIONS.

Central Medical Commission.

During 1916, 5,033 medical certificates were issued by the Central Medical Commission. This shows an increase of 351 as compared with 1915.

Out of this total, sick leave was refused to 86 applicants, and in 974 applications for retirement 115 employees were pronounced fit for duty.

Owing to the difficulty of getting recruits for Cairo City Police Force a special arrangement was made with the approval of the Ministry of Finance whereby recruits suffering from bilharzia of the bladder could be admitted to the Force and the Commission passed twenty-six men (pronounced cases of hæmaturia being rejected).

This arrangement was only to hold good for one year.

Taking into consideration the number of men that are invalided yearly on account of bilharziasis and its sequelæ, it would appear to be most undesirable that such cases should be admitted to Government service.

The number of certificates issued by the Central Medical Commission during the last five years is as follows :---

1912	 	 	 	 	 	 	2,961
1913							
1914	 	 	 	 	 	 	3,776
1915	 	 	 	 	 	 	4,682
1916	 	 	 	 	 	 	5,033

Provincial Medical Commissions.

As will be seen from the attached table, 7,927 medical certificates were issued by the eighteen Provincial Medical Commissions during 1916.

This gives an increase of 678 as compared with last year. Out of this total, sick leave was refused to 180 applicants, and in 1,803 applications for retirement 474 employees were pronounced fit for duty.
TABLE LIX.-MEDICAL EXAMINATIONS MADE BY THE CENTRAL MEDICAL COMMISSION OF CAIRO DURING 1916.

		TOTAL		102	54	49	11	59	115	68	109	144	60	76	68	975
99		Other Miscella- neous Diseases.		61	1	1	1	1	1	1	I	3	1	I	1	10
APPLYING		Digestive System.		1	.1	1	4	1	I	. 1	I	1	1	I	I	1
NDIDATES GRVICE.		Nervous System.		1	1	1	1	1	1	I	I	1	1	1	1	1
REJECTION OF CANDIDATES FOR ENTRY TO SERVICE.	DISEASES OF	Circula- tory System.		15	80	9	12	11	15	6	10	1	10	10	8	121
FOR EN	1	Respira- tory System.		I	I	1	I	1	1	1	67	2		1	1	2
CAUSES OF		Urinary System.		29	22	24	24	- 24	48	28	. 44	29	16	15	14	355
CA		Defective Vision.		56	53	18	35	55	51	30	53	29	32	51	46	482
	Towar	TIM		406	340	401	393	396	543	392	557	530	329	406	340	5,033
		Other Examinations if any.		9	3	4	I	7	3	1	60	33	3	5	Ŧ	42
OBJECT OF MEDICAL EXAMINATION.	159.	For Other Determination Examinations of Age.		1	1	.5	3	9	5	10	1	1	67	1	1	27
L E2	CA81	ing vice.	Fit for duty	64	1	10	10	10	20.	10	16	9	12	15	8	115
MEDICA	NUMBER OF CASES.	For Invaliding from Service.	Invalided.	20	49	65	101	11	157	76	88	62	70	69	73	974
T OF	Nt	eave.	Refused	00	4	1-	14	12	13	6	9	~	1	Ŧ	4	86
OBJEC		For Sick Leave.	Granted.	129	134	154	122	157	141	149	170	132	112	144	103	1,647
		For Admission to Service.		201	153	173	167	149	237	164	295	315	142	188	159	2,343
				:	:	:	:	f	:	:	:	:	:	:	:	:
		19		:	:	:	:	:	:	:	:	:	:	:	:	:
	HTNOM			ry	ary	ı	:	:	:	:	st	mber	er	nber	December	TOTAL
				January	February	March	April	May	June	July	August	September	October	November	Decen	

•

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TABLE LX.-ANNUAL RETURN OF MEDICAL EXAMINATIONS MADE BY THE CENTRAL AND PROVINCIAL MEDICAL COMMISSIONS DURING THE YEAR ENDING ON DECEMBER 31, 1916.

1,584 Ξ 1-TOTAL. -1 H Other Miscella-neous Diseases, I CAUSES OF REJECTION OF CANDIDATES APPLYING FOR ENTRY TO SERVICE. Digestive System. Nervous System. DISEASES OF Circula-tory System. -I T Т Respira-tory System. I I I I Urinary System. σ, Defective Vision. t-CN -+ Ŧ 12,960 5,033 TOTAL Other Examinations if any. + For Determination MEDICAL EXAMINATION. :0 of Age. NUMBER OF CASES. For Invaliding from Service. fue duty 1-2,750 Invalided. For Sick Leave. KQ. Refesed. -OF. OBJECT Granted. 4,788 1.647 For Admission to Service. 4,506 2,343 -: ; : ÷ : Central Medical Com. : : : : : : : : : i ÷ ÷ ŝ -: : : COMMISSIONS : TOTAL -÷ -ŝ ŝ : : ŝ : Alexandria... ; : -Daqahliya Qalyûbiya Beni Suef Port Said Gharbiya Minûfiya Sharqiya Damietta Minya Girga ... Aswân... Giza Asyût ... ::: Suez ... Faiyûm Beheira Qena

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VIL-REPORT OF THE INSPECTORATE OF PHARMACIES.

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The work of the Inspectorate of Pharmacies has suffered considerably since the outbreak of war by reason of the mobilization of three Inspectors. This fact explains the limited number of inspections carried out during the past two years.

The appointment of an Assistant Chief Inspector in January 1917 will, however, allow the number of inspections to be increased.

Cocaine.—The Chief Inspector of Pharmacies considers it his duty to draw attention to the serious abuse of cocaine in the country.

The existing law is inadequate as far as it concerns pharmacists and authorized dealers in poisonous substances and practically ineffective with regard to others who traffic in this drug.

The maximum fine which can be imposed does not exceed P.T. 100, and it is necessary that the defendant be the proprietor of, or an assistant in a pharmacy in order to obtain from the tribunal a judgment of closure of the establishment in which the infraction of the law occurs.

Persons in possession of cocaine, but against whom no charge of illegal sale can be proved, are in no way affected by the law.

The most important traffic in cocaine is carried on outside of pharmacies by persons, who are in no way connected with the profession, such as pension and café proprietors, cab and automobile drivers, etc.

In spite of these difficulties, the Inspectorate continues to do all in its power to check the abuse of the drug.

During the year 1916 seven prosecutions were instituted for the illegal sale of cocaine in pharmacies. As a result, four judgments of closure have been granted by the tribunal, whilst three cases are still pending.

In spite of the control exercised by the Inspectorate (with the help of the Customs authorities) on the importation of this product into the country, large quantities of cocaine are obtained clandestinely by means of sailors, special travellers and by false declaration at the Customs.

As the result of a certain amount of study which has been devoted to this matter, the Department has come to the conclusion that the following are the lines along which legislation intended to control the traffic in habit-forming drugs (morphine, cocaine or heroin) should be drawn up :—

(1) The words morphine, cocaine and heroin shall include all preparations, salts, derivatives or admixtures of one or more of these drugs.

The expression " special authority " shall mean :---

- (a) A licence granted to a licensed medical practitioner, pharmacist or poison seller in accordance with the Pharmacy Law.
- (b) A prescription granted by a licensed medical practitioner.

(2) No person other than a licensed medical practitioner, a licensed pharmacist, or poison seller shall without special authority purchase or attempt to purchase, sell or attempt to sell, or otherwise obtain, or have in his possession, any morphine, cocaine or heroin.

- (3) No licensed medical practitioner shall :---
- (a) Sell, supply or dispense any of the above mentioned drugs to any person whatsoever;
- (b) Grant a prescription for any of the above mentioned drugs, except as medicine in the bona fide exercise of his profession;

- (c) Grant a prescription for any quantity greater than one gramme;
- (d) Deliver a prescription, otherwise than personally, to the patient and bearing the full name and address of both the patient and of the practitioner and the date of issue;
- (e) Medical practioners and authorized dentists are entitled to order a quantity of not more than one gramme at a time for the use of their clinics. Such orders will be registered by the pharmacist in a special register.

This power of medical practitioners and authorized dentists under paragraph (e) may be withdrawn at any time.

- (4) No licensed pharmacist shall :---
- (a) Supply any of the above mentioned drugs except on the prescription of a licensed medical practitioner bearing the full name and address both of the practitioner and the patient;
- (b) Supply any of the above mentioned drugs on a prescription for more than one gramme;
- (c) Supply any of the above mentioned drugs more than once on the same prescription.

(5) Every prescription for any of the above mentioned drugs shall be retained and filed by the pharmacist who supplies the drug, and a receipt for the prescription shall be given to the person to whom the drug is supplied.

Any prescription containing one of these drugs, when prepared by a pharmacist, will be entered in a special register with the full name of the medical practitioner, the full name and address of the patient, the date of the issue and the serial number of the register.

(6) Patent medicines containing not more than 0.1 per cent of these drugs may be sold by pharmacists only without prescription, but must be registered in a special register with the name and address of purchaser.

(7) Dealers licensed to sell these drugs under the Pharmacy Law shall be able to sell them only to authorized proprietors of pharmacies, under a written order bearing the date and signature of the purchaser, his address and in full letters the amount required.

Hashish.—A proclamation regarding hashish has been issued by the military authorities providing special penalties for illegal traffic in this drug.

General.—During the year, modifications have been made in the form of authorization to export poisonous herbs, etc., grown in the country, such as datura, hyoscyamus, etc. The old form of authorization had, after several years' experience, proved unsatisfactory. The permit is now made out in the same manner as that given for the exportation of native opium and a more effective control is assured by the additional information which it is necessary to give, such as quantites purchased, quantities exported, and the name and address of the consignee.

At one time, owing to the war and the cessation of trade with large manufacturers in hostile countries, it was feared that some important medicines would become unobtainable; however, thanks to the facilities afforded by the Allied countries and to the efforts of the Egyptian Government, no serious shortage in the supply of drugs has occurred, though there has been an increase in the prices of certain products, due to abnormal cost of production and transport.

The action of the Government in prohibiting the re-exportation of foreign medical products from Egypt and making the exportation of local medical products subject to special permission has also been instrumental in preventing a shortage of drugs in the local market. Two judgments of fine and closure of premises in cases in which poisonous substances were sold illegally have been granted by the Courts. After consultation with the Contentieux, the authorizations held by the delinquents above mentioned were cancelled.

Before concluding this report, the Chief Inspector of Pharmacies would point out the need for the revision of the Pharmacy Law at present in force, the necessity of which is indicated by the several observations which figure in this brief report.

The present Pharmacy Law has been in force for ten years, during which period the Inspectorate has had many opportunities of noting its imperfections. It is hoped that before long a new law will be framed in order that the pharmaceutical profession, as well as the authorized dealers in poisonous substances, may be governed by an enactment more in keeping with the special conditions of this country and more in harmony with the legislation existing in other countries on the same subject.

During the year 1916, twenty-nine pharmacies have been closed or transformed into drug stores and forty-eight new pharmacies have been opened, seventeen of which belong to qualified pharmacists and thirty-one to unqualified persons.

The total number of pharmacies existing at the end of the year was three hundred and thirty-six.

Unfortunately, the proportion of pharmacies owned by unqualified persons still remainsvery high, being 40 per cent of the total.

	-	IRO,		NDRIA.		INCES.		TAL.
		macies sd by		macies ad by		macies ed by		ed by
	Qualified Pharmacists.	Unqualified Persons.	Qualified Pharmacists.	Unqualified Persons.	Qualified Pharmeists,	Unqualified Persons.	Qualified Pharmacists.	Unqualified Persons.
Existing at end of year	92	44	48	18	59	75	199	137
Inspected and found satisfactory	3	2	7	2	3	6	13	10
Inspected and found unsatisfactory	1	2	-	1	-	2	1	5
Inspected and found mediocre	1	-	4	-	1	4	6	4
Opened	. 2	13	4	6	6	12	17	31
Closed	6	7	1	3	5	7	12	17
Procès-verbaux drawn up for offences against the Law of 1904	24	7	• 7	14	5	20	36	41
Sentenced	7	3	7	14	5	20	12	17
Acquitted	6	-	2	1	1	6	9	7
Pending	11	4	4	10	_	3	15	17

TABLE LXI.-STATISTICS CONCERNING PHARMACIES.

(1) Thirty-two samples of medicines were taken and analysed with the following result :---

- (a) One warning was sent to a qualified pharmacist at Alexandria.
- (b) Two procès-verbaux of contravention were drawn up against qualified pharmacists in Cairo, resulting in one sentence and one case pending.
- (c) Five procès-verbaux were drawn up against unqualified proprietors (Alexandria 1 and Provinces 4), resulting in one case pending (Alexandria), three sentences (Provinces) and one case filed (Provinces).
 - (d) Twenty-four samples of medicines were found good.

- (2) Forty-four samples of manzûl* were taken and analysed with the following result :---
- (a) Six procès-verbaux were drawn up against vendors (Cairo 2 and Provinces 4), resulting in two sentences (Cairo 1 and Provinces 1), four cases pending (Cairo 1 and Provinces 3).
- (b) Twenty-eight samples of manzûl were found after analysis to be free from anæsthetic substances.

(3) Fifteen authorizations to practise as pharmacists were issued to holders of the following diplomas : 2 Americans, 1 Italian and 12 Egyptians.

(4) Four authorizations to practise as assistant pharmacists were issued to holders of the following certificates : 2 Egyptians, 1 Russian and 1 Maltese.

(5) The total number of authorizations to sell poisons is sixty-nine, three establishments having been closed during the year.

- (6) Thirty-three offences against the Pharmacy Law had the following result :---
- (a) Four warnings were sent to qualified pharmacists in Cairo.
- (b) Five warnings were sent to unqualified proprietors of pharmacies (Cairo 3 and Alexandria 2).
- (c) Twenty-two procès-verbaux were drawn up against persons for the illegal practice of pharmacy and sale of poisons (Cairo 7, Alexandria 1 and Provinces 14), resulting in seven sentences (Cairo 1, Alexandria 1 and Provinces 5), one case filed (Provinces), fourteen cases pending (Cairo 6 and Provinces 8).
- (d) Two procès-verbaux were drawn up against druggists (Alexandria 1 and Provinces 1), resulting in one acquittal (Alexandria) and one case pending (Provinces).

^{*} Manzúl is a kind of sweet paste, common among the natives, containing tonic, anæsthetic, or aphrodisiac substances. Generally, all preparations of Hashish for internal use are sold under this name.

VIII.-REPORT OF THE ENGINEERING BRANCH.

The report on this branch of the Department's work is drawn up with reference to the financial year April 1, 1916, to March 31, 1917.

1. SPECIAL CREDITS FOR NEW WORKS.

The following table shows various details concerning special credits granted for new works and the sums disbursed.

NAME OF WORK.	Sum granted in Budget 1916-1917.	Total Grant.	Expenditure from April 1, 1916, to March 31, 1917.	Total- Expenditure to March 31, 1917.	REMARKS.
	L.E.	L.E.	L.E.	L.E.	
 Alexandria Hospital.—Comple- tion of additional pavilion 	319	9,800	-	7,557	-
 Alexandria Hospital.—Comple- tion of Nurses' House 	91	2,800	-	2,207	-
3. Infectious Hospital, Zagazig.— Completion	35	2,040	42	1,979	L.E. 7 on Econo mies, Travau
L. Damanhûr Hospital.—Electric light installation	160	160	_	_	neufs.
Abbasîya Fever Hospital.—New annexes		13,000	8,058	8,947	L.E. 58 on Econ mies. Travau
 Qasr el 'Aini Hospital.—Conver- sion of existing water-closets to 					neufs
water-carriage system, etc	800	800	870	870	Credit increased by L.E. 70.
. Port Said HospitalConnection to main sewer		610	540	540	Reduced by L.E. 70
. Enlargement of Vaccine Institute		700	606	606	_
. Qasr el [*] Aini HospitalNew crude oil engine	500	500	428	428	_

TABLE LXII.

The following brief notes give certain information concerning each of the above pieces of work :—

1. Alexandria Hospital.—Completion of additional pavilion for ninety beds. This building was completed and occupied at the end of 1913.

The credit granted in 1916 was for painting and colourwashing walls and a last coat of paint to woodwork of doors and windows, etc.

This work could not be completed owing to the premises being occupied by wounded soldiers.

2. Alexandria Hospital Nurses' House, Completion.—This building was completed in 1914 and occupied. The credit granted for 1916 was for painting. Owing to these quarters being occupied by extra nurses, this work has had to be again postponed.

3. Zagazig Hospital, Completion of Infectious Block.—The credit granted in 1916 was for electric light installation. This work was completed and handed over on February 26, 1917.

4. Damanhûr Hospital, Electric Light Installation.—This work could not be proceeded with, as the work upon the electric light installation of the town has been suspended owing to the war.

5. Fever Hospital, Abbasiya, New Annexes.—These annexes, consisting of two 34bed pavilions for second class patients, 1 patients' discharging block, 1 attendants' bath block and modification of kitchen and laundry have been completed and handed over in November 1916.

The sanitary installation for the above was completed in December 1916 and the electric light installation in March 1917.

The whole of the permanent buildings of the Fever Hospital are now connected to the public sewer, and the old septic tanks, fosses and filters filled in.

6. Qasr el 'Aini Hospital.—An entirely new drainage system has been carried out and connected to the public sewer.

The old pail closets have been finally suppressed, the closets modified and converted into water-carriage system. Additional slop and ordinary sinks have been fixed and the old insanitary fosses filled up. The above work was completed in December 1916.

The sanitary condition of this hospital may now be considered satisfactory.

7. Port Said Hospital.—This hospital has also been provided with a new drainage system similar to the above. Water-closets have been substituted for the pail closets and connected to the public sewer.

The cost and inconvenience of removing pails and emptying fosses is thus done away with. The fosses have been filled up, thus considerably improving the general sanitary condition of the premises.

This work was carried out departmentally and completed in December 1916.

8. Enlargement of Vaccine Institute.—A new annexe for this Institute was completed and handed over in 1916.

The gas, electric light and water installations for this annexe were completed in January 1917.

9. Qasr el Aini New Crude Oil Engine.—As the old gas producer plant which was supplying the hospital with power for electric lighting and washing machinery had become worn out and expensive to run, it was removed and a new 25 h.p. oil engine for crude oil substituted.

The saving in the cost of running, according to a report from the Chief Electrical Engineer, Ministry of Public Works, is estimated at about L.E. 500 per year.

2. REPAIRS.

The repairs and aménagements credits for the budget year 1915-1916 were L.E. 5,919+800 = L.E. 6,719.

The expenditure from April 1, 1916, to March 31, 1917, was L E. 6,719.

The following repairs were effected :--

TABLE LXIII.

NAME OF BUILFING.	Repairs.	Aménagements.	NAME OF BUILDING.	Repairs.	Aménagements
	L.E. M.	L.E. M.		Ĺ.E. M.	L.K. M.
Abbasîya Fever Hospital.		24 331	Brought forward	5,071 423	741 318
Alexandria Hospital		13 972	Print Old Lin H		
Asyût Hospital Benha Hospital	$ 26 120 \\ 26 519 $	-	Faiyûm Ophthalmie Hos-	6 989	
Beni Suef Hospital	15 813	40 730	pital Mansûra Ophthalmie Hos-		_
Damanhûr Hospital	34 135		pital	13 691	-
Damietta Hospital	0 050	0 210	Minya Ophthalmic Hos-		
Isna Hospital	0 950	-	pital Shibin el Kôm Ophthalmic	24 272	-
Faiyum Hospital	8 530		Shibîn el Kôm Ophthalmic		
Hôd el Marsud Hospital	18 848	4 482	Hospital	20 260	
Qasr el 'Aini Hospital Mansûra Hospital	$2,513 909 \\ 16 342$	365 407	Sohâg Ophthalmic Hos- pital	0 550	
Mersa Matrûh Hospital	25 558		Tanta Ophthalmic Hos-	0 350	
Minya Hospital	32 220	27 155	pital	15 675	_
Qena Hospital	6 910	2 500	Zagazig Ophthalmic Hos-		
Port Said Hospital		254 481	pital	19 289	-
Suez Hospital		6 750	Qena Ophthalmic Hospital	2 675	-
Shibîn el Kôm Hospital	21 900	-	Buildings, Central Admi-		0.175
Sohâg Hospital		_	Central Administration	85 698	9 175
Tanta Hospital Zagazig Hospital	$\frac{18}{21}$ $\frac{0.55}{123}$	1 300	Turitania	110 619	4 500
Asyût Ophthalmic Hospital		- 1 000	Public latrines	29 495	2 262
Giza Ophthalmic Hospital	3 320	-	Disinfecting stations	20 938	-
Beni Suef Ophthalmic Hos-			Scavenging and Watering		
pital	3 800	-	Service	92 713	
Damanhûr Ophthalmic			Various	346 029	35 300
Hospital	3 072		Public Health Offices, etc.	59 154	6 975
Carried forward	5.071 423	741 318	TOTAL	5,919 470	799 530

3. WORKS PAID FOR BY OTHER ADMINISTRATIONS AND EXECUTED DEPARTMENTALLY.

DESCRIPTION OF WORK.	Cost.
	L.E.
On Survey Department Account.	
Drainage of offices, Sharia el Dawawin	91
On Ministry of Public Works' Account.	
Fairûm Onbthalmia Haspital_arranging drainaga	27
On Deposit from Shawarbi Pasha's Waqfs.	
Sundry repairs to Qalyûb Hospital	53
	35
On " Dépenses Militaires."	
Lock Hospital, Ezbekiya, sundry repairs	70
", ", ", 1 native water-closet in place of broken one ", ", ", ", ", ", ", ", ", ", ", ", ", "	3
New Bureau des Maurs, Darb el Núbi, division wall	25
Lock Hospital, Hôd el Marsûd : new sink, etc	10
Sundry alterations and whitewashing	58
Five native water-closets, etc	98 98
Repairs to Malkas	25
Fixing large wooden gates at entrance	9 6
Building large window in store	3
Repairing old cooking stove	8
Abu el Ela stables, connecting up to main drain	15
	45
On General Hospitals' Account.	
Giza, sinking tube well, etc	6
Kafr el Dawar, sinking tube well and fixing tank and pump	15
On Chapter III, Ophthalmic Hospitals.	
fron curtain rods for out-patients' shelter, Zagazig Ophthalmic Hospital	5
On Provincial Councils' Account.	
Santa Ophthalmie Hospital, fixing latrine basins	4
Kafr el Zayåt Ophthalmic Hospital, fixing new pump	26
On Stores Chapter. Repairing and repainting furniture, Alexandria Hospital	20
repairing and repairing furniture, Alexandria Hospital	80
On Economies, "Travaux Neufs" Account.	
antaret el Dikka latrine, connexion to main sewer	10
Abu el Ela latrine, connexion to main sewer	7
main sewer	268
fumm el Khalig disinfecting station, connexion to main sewer	48
nfectious Hospital, Port Said, connexion to main sewer	264
asr el 'Aini Hospital, building rubbish destructor	16
" house and conversion of existing sewing rooms to a coal store	299
On Prophylactic Credit.	
Ciosk for Disinfection at Abbasîya Fever Hospital	10
Sinking tube well at Epidemic Store, Minya	49 4
	-
On Precautions against Cholera.	
drainage to temporary mortuary, and fences	159
smailia Hospital, laying on water supply and various works	36
uez Infectious Hospital, accommodation for cholera cases	100
eitiya, accommodation for cholera cases	$\frac{13}{58}$
arious works	40

The following materials were bought in order to bring the stock of pitcher pumps and filter points up to 300, and the necessary piping to 15 metres per pump:---

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								L.E.	
Pitcher pumps	2-i	inch	 	 	No.	121		103	
Driving points	2		 	 	No.	164		115	
Steam piping	2	,,	 	 		1,690	1 feet	169	
Black iron piping	2	.,	 	 		4,655	"	320	

4.—SANITARY INSTALLATIONS.

(Calendar Year, January 1 to December 31, 1916.)

Cinemas, Schools, Public	La	trine	s, etc			Number.
Examined, reported upon, and approved				 	 	23
Etablissements Inst	alubi	res.				
Examined and modifications suggested				 	 	199
Examined and approved				 	 	83
Mosques.						
Old Mosques :						
Examined and reported upon				 	 	725
New Mosques :						
Plans approved (private and Waqfs)		•••		 	 	22
Houses examined and	app	prove	d.			
Abbâsiya				 	 	1

EXPENDITURE.

The following is a comparison of the budgetary estimates for the year 1916-1917 :--

TABLE LXIV.

								1916	1917
							-	L.E.	L.E.
Equipmen	t						 	19,857	43,460
Instrumen							 	4,223	7,565
Drugs and	spe	cial	chem	icals			 	20,196	20,425
Epidemie							 	6,783	24,397
Clothing							 	720	929
Repairs							 	2,441	4,030
Fransport							 	733	200
Forage							 	681	639
*					то	TAL	 	55,634	101,645
								1915	1916
								L.E.	L.E.
Stores box	wht	loo	ally					30,777	54,000

ESTIMATES.

As indicated by the above figures, the stores budget for 1917 differs considerably from its predecessors. The large increase of over 100 per cent on that of 1916 is due to the following causes :----

The estimation of requirements has been made on an extended and more comprehensive basis than hitherto, leading to an increase in quantities and also approximately 50 per cent increase in the classes of articles included therein.

For the first time, epidemic stores have been estimated by quantities as is the case with other sections of the Department, and the method of supplying stores for this section on a single money grant has been abandoned. Further, in connexion with the decentralization of epidemic stores depots referred to later on in this report, the Director of the Epidemic Section has compiled establishments of stores to be held in each province.

Provision in the estimates to complete these establishments has led to an increase over average expenditure on this head of approximately L.E. 8,000, although considerable reductions in the quantities had to be made later owing to the heavy increase in prices of all goods.

These reductions will have to be made good in following budgets, but unless epidemic requirements experience considerable expansion it may be anticipated that expenditure for this service will gradually decrease until the level of making up wastage is reached, when it will become more or less stationary.

The installation of small laboratories in general hospitals and the development of x-ray work has also led to increased expenditure. These items now form part of the regular budget and may be expected to increase until installations have been completed in all hospitals.

Further marked increases have been necessary for the Central Laboratories and the Central Stores workshops. In the actual form of the stores budget several changes have also been introduced, the principal being the division of expenditure into definite compartments, *e.g.* motor cars, etc., laboratories, etc., and the reduction of local purchasing to a minimum. A first attempt has also been made to include entirely new requirements in the budget and thus relieve the strain on the cash margin (5 per cent of the budget) of subsequent unforeseen expenditure.

As a good deal of misapprehension exists regarding the method of expenditure, the following main points may be of interest :---

The basis of the estimates is the average consumption of the last three years. To this average an extra margin of 25 per cent is allowed to meet increased requirements and carrying over stock until new annual supplies are obtained.

In the case of the Epidemic Section the margin has been increased to 40 per cent for certain classes of stores. The budget is quantitative, that is, expenditure is confined to the actual stores and quantities in the budget, and it is not permissible to use the economy on one item to purchase new unforeseen articles or increased quantities of others. A cash margin of 5 per cent of the total estimates is added and this is the only sum at the dispocal of the Department to meet any unforeseen demands that may occur in the course of the year.

CONTRACTS.

	1915	1916
Number of contracts made during the year	130	100
Total value of contracts of the Department, including rations, etc	L.E.	91,124
0		
Value of contracts for Central Stores :		
Equipment	,,	22,571
Drngs		16,125

The following is a comparison of the main contracts in 1915-1916 :--

TABLE LXV.

	RA	TES.	VALUE O	F CONTRACT	т.
CONFRACT.	1915	1916	1915	191	16
	L.E. M.	L.E. M.	L.E.	L.E.	м.
(1) Petroleum per tin	0 140	_	420	595	00.)
(2) Crude oil per kilo.	0 005	-	110	172	OCO
100 34111 1 11	0 029	0 045	232	540	000
(4) Meat for Qasr el 'Aini Hospital:-					000
Martheast	0 060	0 055	1		
Def	0 045	0 040	1		
Meat for Fever Hospital :	0 010	0 010	> 2,500	3,566	000
	0 065	0 055	(2,000	0,000	000
	0 050	0 045		100000000	
Beef	0 000	U UAU	/		
(5) Native bread :	0 0103	0 0091	1	1	
Qasr el 'Aini Hospital "	0 011	0 0094	1,955	1,615	000
Fever Hospital "	0 011	0 0052	,		
(6) Bersim, Scavenging and Watering	0 033	0 035	815	906	000
Service per qantar	1 350	1 100	513	396	000
(7) Straw bedding per ton	3 000	2 380	2,280	1,808	000
(8) Tibn (from Domains)	98 000	2 000	296	1,000	000
(9) Water vans each	0 075	0 060	192	108	000
(10) Rabbits for Antirabic Institute "	0 015	0 000	8,172	13,908	820
(11) Rations for Cairo hospitals	_			32,492	647
(12) Rations for provincial hospitals	0 0195	0 0325	$24,160 \\ 588$		966
(13) Alcohol per kilo.	0 019	0 036	225	1,405	750
(14) Ice per block	0 019	0 000			165
(15) Equipment, etc			16,180	22,571	480
(16) Drugs, general	-		9,472	15,604	
(17) Drugs, local adjudication	and the second		1,754	.520	953
(18) Coal	-	-	5,108	2,212	000

* This figure represents the value of drugs for Central Stores only; other Departments are not included.

GENERAL EQUIPMENT.

			Rate in 1	filliemes.
Item No.	Description.		1915	1916
80	Bedsteads, 2nd class	 	2,230	4,600
104	Blankets, white woollen	 	550	850
107	" brown "	 	405	-510
133	Boots, shawishes	 	535	575
228	Cases for mattresses	 	318	550
416	Drawers, 2nd class	 	46	53
468	Gallabias, large	 	125	182
495	Gowns, hospital	 	685	1,080
547	Jackets, cafico	 	61	82
569	Jerseys, blue	 	188	350
706	Mattresses, felt	 	192	440
765 a	Pannikins, aluminium	 	60	49
866	Pots, copper	 per kilo.	115	-
981	Sheets, 2nd class	 	366	490
984	draw, thick	 	108	290
991	Shirts	 	54.5	75
1011	Shoes, Tamurgis	 	205	. 320
1037	Slippers	 	145	200
1190	Towels, white	 	64	130
1455	Crin végétal	 per kilo.		12
1594	Material No. 3	 per mètre		24.5
1608	" No. 17, bed ticking	 	69	150
1630	" No. 39, blue flannel	 	265	360
1660	Arachid oil	 per kilo.		70
1770	Soap, washing, in cases		35	49
1771	., soft	 **	31	55

TABLE LXVI.-COMPARISON OF PRICES OF MAIN ITEMS BETWEEN 1915 AND 1916.

DRUGS.

The expenditure on drugs has again increased over 1915.

Prices reached a very high level and it is not anticipated that there will be any substantial reduction for some time to come.

The following is a short comparison :---

TABLE LXVII.

						Price in M	tilliemes.
L)ESCI	RIPT	10N.			1915	1916
Aspirin				 per	kilo.	915	6,000
				 	,,	035	043
				 	55	126	280
				 	,,	0191	032
Bismuth carbonate	•			 	,,	1,251	1,950
				 		061	071
				 	,,	110	148
odine, pure				 	**	1,972	2,193
Magnesium sulpha	te			 	**	009	020
				 	,,	039	103
				 	,,	089	079
				 		3,047	5,000
Potassium iodide				 		1,422	2,240
Potassium bromide	9			 	"	1,800	2,441
Quinine sulphate				 	**	2,021	3,952
Sodium bicarbonat				 	**	006	011
Vaseline		•••		 	"	076	100
Sodium salicylate.				 	99	577	2,490
				 	"	036	167
lodoform				 	37	2,660	2,405

Preparations to the value of L.E. 4,933 as against L.E. 5,125 for the previous year were made in the Drug Store.

Medicines to the value of L.E. 2,963 were sold by the various dispensaries of the Department.

STORE TRANSACTIONS.

The following statistics cover the general work of the store-keeping section and accounting offices for the central stores of the Department :---

				REQUISITIO	ONS VOUCHERS.
				Issued.	Stores received at Headquarters
Equipment	 		 	6, 275	2,221
Drugs	 		 	3,322	540
Epidemic	 		 	2,433	1,182
Bùlâq Store	 		 	202	63
Surgical instruments	 		 	1,625	355
Kohna Store	 		 	3,459	2,050
Forage			 	145	119
Hygienic Institute	 		 	13	13
	To	TAL	 -	17,474	6,543

Number of charges of permanent stores in the Department

Value of stores issued on payment :---

From General Store	s			 		 	 	6,404
From Epidemic Stor	e	••••		 	····	 ,	 	769
Value of stocks on April	1, 1	1917	:					
								L.E.
Instrument Store				 		 	 	4,563
Drug Store				 		 	 	19,337
Equipment Store				 		 	 	22,294
Kohna Store				 		 	 	112

ORGANIZATION.

CENTRAL STORES.

During the past year a considerable amount of reorganization has taken place in all sections of the Central Stores.

The staff has been regrouped and the work organized by sections in the following main divisions :---

8	to	20.00	a	:
10	ω	16	σ.	

(10 storekeepers, 30 storemen).

Equipment.	Surgical Instruments Store.
Drug Store.	Kohna Store.
Epidemic Store.	Auxiliary Store

Ledger Section.—Twelve clerks. This section deals with the movement of stock and controls all transactions that occur in the storehouses.

Ninety ledgers and journals are kept.

Permanent Charge Section .- Seven clerks and 199 ledgers.

All transactions which affect the store charges of the Department, such as stocktaking, periodical accounts, losses, the receipt or return of stores are controlled by this section. The permanent charges at present number 250 and there are 400 personal charges for uniforms.

250

Supply Section.—Five clerks. This office deals with the purchasing of stores, including contracts, orders, shipping, payment, sales, and controls expenditure. During the year, 100 contracts and 1,971 orders were dealt with.

Registration, Correspondence and Archives Office.—Four clerks. 19,219 inward letters, including requisitions, and 11,104 outward (not including forms and vouchers) during the year.

In carrying out the above organization considerable changes in staff have been necessary. The latter is now constituted as follows :---

											No.	
Clerk, 1st class				 		 					1	
Clerks, 2nd "				 		 					2	
				 		 					$\frac{2}{3}$	
Storekeepers, D			8	 		 •••					2	
	rd ela	88		 •••		 	••••				227	
	th ,		•••	 	***	 •••	••••	•••	•••	•••		
Clerks, 4th class			•••	 ••••	•••	 •••					16	
" tempora	ry	•••		 ••••	•••	 	•••		•••		11	1.1
										1		43
Workshops :												
Chief foreman				 		 					1	
Clerk of work				 		 					1	
										-	-	2

7 foremen and 45 artisans.

45

The workshops are divided as follows :----

Workmen, ins		wor	KEIIO	P	 		•••	 ••••		8	
'arpenters' wo	orksnop				 			 		19	
Blacksmiths'	"		•••	•••	 			 		6	
Centmakers'					 			 		53	
l'insmiths'	**				 			 		3	
failors'	**				 			 		3	
Painters'	"				 			 		8	
									-	-	52
Dispensary set	rvants				 			 		16	
Drivers and sy	vces				 			 		17	
Storemen					 			 		30	
									-		63
						Tor.				-	1.00
						TOL	AL .	 			160

Stores.—To meet the inadequacy of storage accommodation at headquarters an auxiliary depot has been opened in Bûlâq near the railway goods siding.

This depot occupies 1,603 square metres and a regular storekeeper has been appointed in charge.

The Central Epidemic Stores have been definitely incorporated in the Central Stores and two permanent storekeepers appointed.

The system between the various stores of supplying each other with equipment against payment has been abolished.

The procedure for issuing stores has been altered to facilitate quicker issue, and a new system of control and speeding-up introduced.

Permanent Charges.—All charges of the Department have been thoroughly revised. The issue of uniforms has been unified and a special system of card accounts introduced. There are 400 accounts for uniforms.

Supply Office.—The work of estimates, contract orders and sales has been co-ordinated. The control of delivery, payment, clearance of stores, etc., is now established on the card index system.

Workshops.—A costing system has been introduced and the arrangement of work brought into line with other Government workshops.

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General Reorganization.—In the store work of the Department generally, several important reforms have also been introduced during the year, the principal being the decentralization of Epidemic Stores.

Up to the present epidemic season the practice has been to draw stores straight from the Central Stores into the cordons. This arrangement has the great disadvantage of congesting work at headquarters at a critical time and delaying the supply of equipment which was needed urgently over a wide field of epidemics, besides entailing considerable expense for transport.

To meet this, a scheme of store establishments has been compiled by the Director of Section IV for each province. These establishments are to be held by the provincial stores, so that in future the stock at the Central Stores will be confined to making good the wastage when the season is finished and to holding reserves to meet any exceptional demands. Each store has been inspected, new premises engaged, additional storekeepers appointed, and it is hoped to complete the reorganization finally during the coming year.

This reorganization has rendered possible the conversion of the Epidemic Store budget on the lines mentioned under the paragraph dealing with the stores estimates and enabled timely and systematic provision to be made in place of the former hurried purchasing to meet demands that had already arisen.

Another most important decision on stores is that embodied in Departmental Order No. 76 of September 23, 1916, on the subject of responsibility.

In the above order, demarcation has been definitely made between the administrative responsibility of chiefs of units and the material responsibility of chargees.

A further notable departure from past procedure has been introduced in the method of purchasing contract stores.

Hitherto our supplies have been almost exclusively furnished by local agents.

With the expansion of the stores budget to over L.E. 100,000 it appeared desirable to get into touch with the original manufacturers and to this end our contract supplies were brought to the notice of the trade.

At the same time considerable modifications were made in the Government contract clauses to facilitate tendering.

In the quotations received the experiment has proved very successful and it is hoped that under normal conditions of trade the bulk of our stores will be supplied by the actual manufacturers.

WORKSHOPS.

For the first time, the departmental workshops have been organized on a costing system. This has necessarily involved the introduction of costing ledgers, forms, etc., but at the same time the necessary data have been furnished for survey and control of work.

The workshops are composed of the following seven sections, employing on an average between fifty and sixty men :—

Workshop.		Е	mployees.	Workshop.				Employees.
Instruments	 	 	8	Tinsmiths	 	 	 	3
Carpenters	 	 	19	Tailors	 	 	 	3
Blacksmiths	 	 	6	Painters				8
Tentmakers	 	 	5					

The original budget grant of L.E. 2,441 on this head has been increased to L.E. 4,600, but this sum is designed to meet not only the expenditure of our own workshops, but also that carried out for our account by other departments and private firms.

The number of orders dealt with during the year is 3,000, consuming L.E. 2,400 in material and L.E. 1,400 in labour.

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As will be seen from the following tables, which give the main items of work for each shop, the output of work is more of a repairing nature than manufacturing. Only in two lines has manufacture been definitely undertaken, namely, in aseptic furniture and tentage. In the former case the economy realized in past experiments has led to the whole of the aseptic furniture for 1917 being placed in the hands of our own shops instead of being purchased from home. The result as regards workmanship should prove interesting, as recent trials made by the Department point to the probability of native workmen turning out quite as good equipment in this line as home firms.

The latest autoclaves, entirely satisfactory and well finished, have been supplied by a local tinsmith.

The following will be put in hand during the year :--

Arm baths. Sand bath. Leg baths. Fever bath. Instrument cabinets. Covers for dressing tables. Extension apparatus. Inhalers, zinc. Towel rails. Bandage rollers. Washhand stands, Down. 10-litre irrigator stands. Portable shelves. Instrument stands. Operation stools.

Tables, dressing, glass top. Bed tables. Tables, instrument, and irrigator stands. dressing. 79 anæsthetic. 77 operation. Trolleys, operation. Ammonia apparatus. Formaline Bed-cradles. Zine dressing boxes. Splints, wood and iron. Cabinet for eye instruments. Milk sterilizer. Hot-air sterilizer.

The following have been made during the year :---

			Departmental Shops.	London Price
			L.E.	L,E,
Lead-lined <i>x</i> -ray photo-plate box	es	 	 4,188	-
Irrigator stands		 	 7,097	9,000
Operation trolleys		 	 5,088	13,500
Fever bath		 	 8,550	11,000
Dressing tables		 	 5,122	11,000
Table, x-ray plate rack		 	 3,558	-
Salts, bed-cradle		 	 1,684	1,350
Dressing wagon		 	 4,046	9,335
"Eureka" operation tables		 	 6,500	10,000
Fowel rails		 	 894	1,500
Racks, eye knives		 	 673	1,000

As regards tentage, the adoption of tents in place of straw huts for epidemic purposes has considerably increased the importance of this item as a regular supply, and in future this section of the workshops will probably be substantially increased.

In reviewing the repair character of the work, which makes up the bulk of the output, the most important feature is the instrument-repairing and sharpening shop.

Eight employees are engaged in this section. The broad divisions are edge (scalpels, etc.), blunt (forceps), scissors and eye instruments. The latter category is the most expert, such work as the resetting of keratomes and iridectomy knives having to be sent home to the makers (Weiss & Co.).

The latter inconvenience will only be got over by engaging an expert from home for this particular work.

INSTRUMENT-REPAIRING SHOP.

- 81 -

Ophthalmic Section.

	Lead discs	81970	bods, o	aillo	82,600	Razors			-24
-	Batteries	n-maile	Verinito		36	Eye seissors		postere de la companya de la compa	204
	Scoops					Autoelaves	*****		. 8
	Eye scalpels Hypodermic needles				2,508	Instrument sterilizers Hypodermic syringes		• ••• •••	10 30
	Perimeters				7	Microscopes			2

A General Instrument Repairs.

Balko Health Office.	The store of the s
Aspirators 12	Retractors 2
Catheters in and an an an 16	Laryngoscopes 2
Directors, probes 66	Vaginal speculums 20
1	
Dissecting forceps 160	
	Autoclaves 1. 10
Bone forceps	Dressing kettles
Eye forceps	Brass syringes
Midwifery forceps 10	Hypodermic syringes 50
Mouth gags 4	Dressing tables 20
Chisels and gouges 128	Trephines 16
Guillotines 14	Trocars 34
Vulcellum hook forceps 36	Trocars
Amputation knives 80	Mincing machine knives 182
Bistouries In 100	Chloroform bottles
	Dishthania minana 11 11 11 20
	Diphtheria syringes 10
Scalpels, operation 1,020	P.M. hammers 28
P.M. scalpels 208	Water cushions 10
Lancets 128	Lathotrites 8
Hypodermic needles, mounted 1,050	Sterilizer lamps 12
Nævus needles	Thermo-cauteries 14
Razors	Lenses
Amputation saws 20	Bandage machines 2
Finger saws 40	Operation tables
	Trollors
A 1941 CHINE III III III III III III III III III	Trolleys 4
	Operation stools 6
Straight scissors 1,006	Lamps
P.M. scissors 70	

The following tables show the nature of the work carried out in the other shops :---

TINSMITHS' SHOP.

New Work.

Meshes for wire mattresses 5,000	Funnels
Foot baths 2	Zine pots 20
Leg baths 22 Percolators	Bed-pans 13

Repairs.

Water cans		 	 	244	Copper bed-pans 6
Ice chests relined				27	Pannikin trays 20
Vermorels		 	 	157	Zine baths 17
Vermorel pipes		 	 	61	Candlesticks 31
" nozzles				29	Arm bath 6
Foot warmers				113	Soldering tins and drums 724
Lanterns				67	Fitting glass panes 111
Lamps				53	Cutting panes of glass 966
" table				89	Copper pans 17
spirit	••••	 	 	310	Bed ticket holders 449
Milk cans, K.A.		 	 	167	Formaline apparatus 17 Ammonia 23
Bedsteads		 	 	101	Ammonia " 23

TENTMAKERS' SHOP.

New Work.

Pillows		 	 		605	Te	ent sack					570
Mattresses		 	 		436	(D) V	wnings,	K. A. I	1			13
Mattress cases		 	 		224				Ophthalmie	Hospital)	a militar
Tents		 	 		53		11	Lagazig		"		For Army
Curtains, sets					16		22	Benha				Patients.
Cart awnings	and and	 	 11 1 1 1 1	marchille	9			Fanta]	

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Repairs.

	0
	6
	0
Sector lisinfaction 965 shains unhalstand 4	2
	2

PAINTERS' SHOP.

	LAINIERO SHOL	
Painting furniture :		
Minya Hospital.		
Fayûm Hospital.		
Asyût Hospital.		
Kafr el Zayât Travelling H		
Mehalla el Kobra Travellin;	g Hospital, Ophthalmic.	

Isna Hospital. El 'Atf Health Office. Búlåq Health Office. Shubra Health Office. I, Ophthalmic. Port Said Hospital.

758 Bed numbers in wards of Qasr el 'Aini Hospital.

Tables	451	Water barrows	 	 	7
Bedsteads portable-ward-operation, etc.	609	Vermorels	 	 	11
Bedsteads, portable-ward-operation, etc. Boxes, specimen, canteen, fever, small-pox	544	Trays, waiters'	 	 	40.
Ol. in	259	Ease bath	 	 	2
Chairs		Fever baths	 	 	-
Screens	62	Iron drums	 	 	11
Cupboards, assorted	52	Lanterns	 	 	65
Iron supports	162	Bed rests	 	 	10-
Boards	353	Ice chests	 	 	6
Pail covers	50	Sterilizers	 	 	3.
Sacks, tent	300	Hat racks	 	 	15
Sofas	6	Autoclaves	 	 	4
Waste-paper boxes	68	Weighing machines	 		2
Water cans	118				1
Cups	300	Pails			78.
Manual and an and an an an an		Pares III III III III	 	 	
Measures	150	Forms	 	 	-48
Basins	20	Trolleys	 	 	8
Bed ticket holders	446	Machines, various	 	 	19-

BLACKSMITHS' SHOP.

New Work.

Iron brack	ets		 	 	 2,036	Fever baths				 2
Keys			 	 	 230	Dressing tables				 16
Angles			 	 	 392	Salters, bed	• •			 1
Hinges					 22	Operation trolley	• •			2
Brackets Iron rods	••••	••••			 20 77	Irrigator stands Towel rails	• •			*
					 98	Stands for evaporating	di	ä	• •••	 6
Iron rings	***		 	 	 50	istantis for evaporating	; uis	su	• •••	 0.

Bedsteads	·		 354	Carts	 	 		 43
Zir and tesht supports			 213	Water barrows	 	 		 10
Hasps and staples			176	Wheelbarrows	 	 		 10
Locks Iron tables, travelling		••••	 105 175	Filters	 	 	••••	 15
Drums, cyllin			121	Kitchen stoves	 	 		 0

Repairs.

TAILORS' SHOP.

New Work.

Mosquito 1	nets			 			151	Pillowslips	 	 	196
Operating							36	Flags, hospital pattern	 	 	40-
Sisters' ap							24	Gallabias	 	 	153
Table napl							288	Sheets, 1st class	 	 	328
Operation							86	Flannel coats		 	26
Shirts, diff		10 C.					434	Deserver	 		25
Veils							600	A			1.000
Sun protec							36	Sofa cushion covers, set			20
								Torra cushion covers, set	 •••	 	
Screen cov	ers,	4-10	10	 			44	Trousers, tamurgi	 	 	50
Screen, co	vers.	3-fc	old	 			49	Stretchers	 	 	13
Towels							610 -	Tablecloths			22
1011010111				 		1000	10000		 	 	
							Repa	rs.			
Blankets				 			203	Gallabias	 		69
							131	Shoots		 •••	1
Jackets				 					 	 	274
Trousers				 	***		89	Caps	 	 	18
Overcoats				 			24	I all aligns hillers	 	 	20-

CARPENTERS' SHOP.

Description.	New.	Repair.	Description.	New.	Repair.
Tables	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Crutches	76 39 14 20	$\begin{array}{c} - \\ - \\ 41 \\ - \\ 97 \\ - \\ 97 \\ - \\ 5 \\ - \\ 83 \\ 28 \\ 5,000 \\ - \\ 41 \\ - \\ 4 \\ - \\ - \\ - \\ 76 \\ 3 \\ - \\ 14 \\ 320 \\ 18 \end{array}$

X,-REPORT ON CAIRO SCAVENGING AND WATERING SERVICE.

STREET AREA.

Extension of area in 1916 amounted to 12,272 square metres of macadam and asphalt roads, bringing the total area of public roads under the charge of the Service, at the end of the year, to 3,133,351 square metres.

A statement of areas and extensions for the last three years is appended :---

	 YEAR.		atin 	Area.	Extension during Year.
1000	 199.00	93.00	1111	Square Metres.	Square Metres.
1914 1915	 			3,095,554 3,121,079	-145,554 -25,525
1916	 			3,133,351	12,272

TABLE LXVIII.

Earth roads of an approximate area of 500,000 square metres are included in above figures. This area is scavenged as far as credits allow.

Work on Private Account.—In addition to the figures given in Table I, the Service operates on an area of 81,143 square metres of macadamized private roads, against payment. The area is unchanged from the previous year and is as follows :—

	Sq	uare Metres.
Roads in Abbasiya Barracks	 	31,817
Egyptian State Railways approach roads to temporary military		
platforms	 	38,756
Property of the Société Belge-Egyptienne de l'Ezbekieh	 	8,570
Property of the Société des Biens-Fonds Urbains et Ruraux .	 	2,000
TOTAL .	 	81,143

Water Consumption.

Tabular statement of net consumption by the Scavenging and Watering Service for the past three years :---

TA	\mathbf{RT}	E	$\Gamma X I$	N.
1.17	15.1	113	11.02.1	1.2.7.4

	Me	ONTH.			1914	1915	1916
				-	Cubic Metres.	Cubic Metres.	Cubic Metres
January				 	31,830	15,514	18,300
February				 	29,521	19,924	18,608
March				 	51,814	34,566	39,577
April				 	61,933	48,293	67,387
May				 	84,332	53,709	73,301
June				 	90,645	76,517	85,497
July				 	92,367	71,689	78,868
August				 	74,799	75,378	74,965
September				 	69,664	62,516	71,477
October				 	31,733	51.598	50,641
November				 	23,874	38,458	33,885
December			•••	 	11,814	27,386	27,303
		Т	OTAL	 	654,326	575,548	639,809

Rolling Stock.—After deduction of condemned material, sales to Army or Government Departments, and inclusive of new material purchased, the strength of rolling stock, etc., on charge of the Service was as below :—

1910	1915	TAI	BLE LXX.	E LXX.						
		16	1914	1915	1916					
1		1			Do					
Double water			74	78	89					
Single water	carts		83	77	89					
Double dust	vans		69	73	80 89 77					
Single dust c	arts		197	208	203					
Machine brus	hes		38	38	40					
Trolley carts			13	13	13					
Sewage carts	· · · · · ·		26	20	34					
Hand carts			109	117	120					
Dust bins			420	470	477					
Steam pumps			3	3	1					
Hand pumps			aneroni 6a	lo man 6or	uniwO-6.					
				and the						

During 1916 one single water cart for donkey was sold to the Army authorities. Twelve water carts (included in above table) were on loan to the Army authorities for work in the different camps in Cairo district.

Comparative prices of new rolling stock for the last three years are shown hereunder :--

at end of :				914	185 91	1915 1916		
1916		1916	L.E.	м.	L.E.	м.	L.E.	м.
Single dust of Double dust Single water	vans	100 ···· 101 ····	$ \begin{array}{r} 14 \\ 59 \\ 21 \end{array} $	500 701 —	$\begin{array}{c}15\\67\\23\end{array}$	$299 \\ 767 \\ 540$	$\begin{array}{c} 22\\73\\34\end{array}$	$\begin{smallmatrix}100\\454\\100\end{smallmatrix}$
Double water	r carts		72		81	-	98	450

Repairs were executed in Service workshops. New material was purchased from the Mechanical Service, Tura Prisons, and by adjudication.

Harness.-Made as usual at the Model Workshops. The prices were :---

	1915	914	19	15	1916	
			all.			
	L.E.	м.	L.E.	м.	L.E.	М.
Double harness	5	300	6		6	800
Single harness	\$10	200	4	600	5	200

For a short period in 1916, the Service made up its own harness, as the Model Workshops were unable to supply, owing to pressure of work, but this was abandoned as soon as the Model Workshops could resume delivery, as the Service had not sufficient stock of leather to continue the work.

Repairs were executed, as usual, in Service workshops.

Animals.—At the beginning of 1916 the number of animals on strength was: Mules 547, horses 18, donkeys 13.

During 1916 the following number of animals were struck off, owing to wastage or drafting to the Provinces and return of 25 mules to Army : Mules 80, donkeys 2.

As it was found impossible to obtain sufficient mules of suitable type from local sources, an arrangement was made, entailing a special credit from the Ministry of Finance, to purchase 56 American mules from the British Army, at a cost of L.E. 55 each. These were taken over in November 1916 and have proved very satisfactory. In December 1916 the Service still remained below its estimated strength for the year by 10 mules and 2 donkeys.

					1914	1915	1916
Animals cast	:						
Mules .					 51	37	80
Horses .					 $\frac{1}{3}$		-
Donkeys.					 3	4	2
Animals pure	has	ed :-	-				
Mules .					 43	84	73
Horses .					 1	-	-
Donkeys.					 -	-	3
Strength at e	nd	of	vear	:	 -		
Mules .					 500	547	540
Horses .					 18	18	18
Donkeys.					 17	13	14

TABLE LXXL-ANIMALS	CAST AND PURCHASED.
--------------------	---------------------

Buildings.—Owing to want of sufficient credit, no new stabling accommodation was undertaken. The stable drainage at Bûlâq central stables was connected up with the city sewage system and is working satisfactorily.

Bicycles.—Scavenging and Watering Service : fourteen bicycles were struck off as past use and replaced, and one bicycle was purchased.

Central Stores: two machines were struck off and replaced, and one bicycle was purchased.

Tabular statement of bicycle establishment at end of :---

	1914	1915	1916
Scavenging and Watering Service Central Stores			61 53
TOTAL	109	112	114

Owing to Singer machines not being available, the New Hudson type of bicycle is now being used and proves satisfactory, though not so strong as the Singer make.

Average cost of repairs per bicycle per annum was :---

1914		1	915	1916		
L.E.	м.	L.E.	м.	L.E.	м,	
3	536	3	408	5	094	

Motor Cycle.—This has run, during 1916, 2,407 kilometres at a cost of L.E. 13.703 milliemes for upkeep, *i.e.* approximately 6 milliemes per kilometer.

Forage.—On the recommendation of the Veterinary Service, barley and tibn were supplied direct by the Domains Administration and found very satisfactory, no cleaning being necessary.

						PRI	ICES.			
				19	914	.1	915	191	16	
				L.E.	м.	L.E.	м.	L.E.	м.	
Barley	 	 	 	8	200	8	301	9	094)	
Bran	 	 	 	5	910	5	910	5	910	
Tibn	 	 	 	2	900	3	-	2	380 (per ton of 1,000 kilos.
traw			 	ī	375	1	350	1	100	
Bersím	 	 	 	õ	037	0	033	Õ	027	per qantar of 100 rotls.

Bran continued to be supplied by Egyptian Army Supplies Department from Tura mills.

Bersim and straw were supplied by contractors, after public adjudication

Shoeing .- Average cost per set per month :--

1	914	19	915	19	16
LE.	м.	L.E.	м.	L.E.	м,
0	056	0	059	0	087

General Stores .- Prices of these were very high and delivery was very much delayed.

Refuse Disposal.—As in all large cities in other countries, the disposal of street sweepings and household refuse is a problem the satisfactory solution of which is not an easy matter.

The total quantity of refuse collected by the carts of the Scavenging and Watering Service in 1916 is calculated on data given later in this note at 279 tons per day, or 102,114 tons per annum.

This was disposed of partly by dumping and partly by burning at the refuse destructor in Old Cairo.

Burning by means of high temperature refuse destructor is the most sanitary method of disposal of refuse, but this is very expensive unless the heat generated can be utilized for some municipal enterprise such as, for instance, the lighting of a town by electricity. This cannot be done in Cairo, so that the heat is mostly wasted. The working expenses of the destructor amount to about L.E. 1,372 per annum and the amount of refuse burned by it is thirty tons a day, or 10,950 tons per annum, less the days when it is out of action for repairs. The only uses to which the heat can be put are, firstly, to supply steam to the slaughter-house, effecting thus an economy in coal of L.E. 450 in pre-war days and consequently much more at the present time, and, secondly, to heat a crematory furnace for the cremation of dead animals, the destruction of government papers sent down from time to time, and of tobacco seized at the Custom House.

The remainder of the refuse, 249 tons per day, was dumped at seven different sites in the outskirts of Cairo.

The following are the details of disposal of refuse for 1916 :--

NAME.	Single Dust Cart. 1 c.m. capacity.	Double Dust Van. 2 c.ms. capacity,
Madbah	. 64	77
Shanawâni	. 58	-
Giza	. 19	19
Bab el Husseiniya	. 94	29
Shubra	. 27	3
Imbâba	22	-
Mataria	. 42	-
Тотац	. 337	. 128

TABLE LXXIII.

In addition, 154 single dust-cartloads were delivered daily to fifty-four native baths, against payment, and thirty tons of rubbish were daily burnt at the destructor.

Reckoning a cartload of one cubic metre as about one-third ton weight, the total daily output was, in 1916 :---

				Т	OTAI	L	 279	tons.
Destroyed at	des	truc	tor	 			 30	"
Native baths				 			 51	
Tipping				 			 198	tons.

or for the whole year 102,114 tons.

11.16163616		
1914	1915	1916
Tons.	Tons.	Tons.
68,985	54,020	72,468
20,075	20,440	18,666
10,950	10,950	eroin Stores - Prices 10,980
		tse Disp osal. Ania
		102,114 of blodes
	Tons. 68,985 20,075 10,950 100,010	Tons. Tons. 68,985 54,020 20,075 20,440 10,950 10,950

TABLE LXXIV .- TABULAR STATEMENT OF RUBBISH OUTPUT PER ANNUM.

The situations of the existing dumping sites are open to most serious objections on account of their proximity to the habitations of the town.

The Madbah *dépotoir* has become a mound of refuse higher than the roofs of the houses in its immediate vicinity and the necessity of finding another site is an urgent necessity.

As regards the Husseinîya *dépotoir*, in view of the scheme in course of being put into execution for the levelling of large areas of land in the neighbourhood, in order to render these suitable for building purposes, this site has become unsuitable as a dumping ground.

In short, the question of the disposal of the refuse of Cairo city is becoming more acute every day and will necessitate the elaboration of a scheme involving very considerable expenditure by the Government in the near future.

In any such scheme the two alternatives at our disposal are burning and dumping. The former would require an increase in the number of cells at the destructor to allow of 279 tons of refuse being burned every day instead of only 30. In addition to the capital outlay necessary, there would be a corresponding increase in the annual expenditure. In fact, the cost of this method would be almost prohibitive.

As regards the other alternative, dumping is a method of disposal peculiarly well suited to Cairo on account of its surroundings of desert. The great difficulty in connexion with the dumping of refuse in the desert at a sufficient distance from the town is that of transport. The only two practicable methods of effecting this are by rail or by motor vehicles. Until recently it seemed that existing railways might perhaps be utilized for the purpose, viz.: the quarry railways which run along the eastern outskirts of the town to the desert on the north and south of the Citadel. It appeared quite feasible to remove the refuse in this way to certain parts on the desert south of Cairo. The most promising of these railways has, however, lately been taken up. Unless, therefore, a special railway of some kind is laid down, it seems probable that motor transport will offer the only solution of the difficulty.

Drainage Transport Service.—There has been no extension of this in 1916, but a certain number of the mules have been employed daily by the Main Drainage Department on transport of material, etc., for their Service in dust carts loaned by this Service.

Municipal Supply Service.—During 1916, the credit for this work (L.E. 3,000) was exceeded by L.E. 1,891.

Stables.—In July 1916, at the request of the military authorities, the temporary stable for forty-four animals at Abu el Ela was given over to them, and is used by their Transport Service.

Since the purchase of fifty-six mules from the Army, and consequent addition of strength, the available stable accommodation in the Service has become very limited. Work executed for the Account of the Army.—In August 1916, at the request of the Army authorities, daily collection of refuse from the following offices in Cairo was undertaken against payment, the Army loaning the necessary pair of mules, which were stabled and fed by the Service.

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Headquarters, Savoy Hotel.

Qasr el Nil Barracks.

Abu el Ela Transport Stables (collection from here ceased in November, 1916). Military Police Barracks, Bab el Hadid.

Old Headquarters, Sharia Qasr el Nil.

Salonica Garage.

Army Post Office.

Destructor.—Annual upkeep, inclusive of screening, was :--

1914	1915	1616		
, L.E.	L.E.	L.E.		
1,306	1,268	1,247		

Average cost per day, inclusive of non-working periods, was :---

1914	1915	1916		
L.E. M.	L.E. M.	L.E. M.		
3 578	3 474	3 417		

Upkeep of Taps .- The following was the expenditure under this head in :--

1914	1915	1916
L.E.	L.E.	L.E.
572	367	395

Daily-paid Labour.—In the course of 1916, owing to the better rates of pay offered by the Army and the Egyptian Labour Corps, as compared with the Scavenging and Watering Service, a number of drivers, etc., left work, and it became difficult to replace them with capable drivers.

Tabular statement of strength of daily-paid labour appended :---

TABLE LXXV.

_	1914	1915	1916	
Drivers :-	125	114	120	
Water Cart	125	114	120	
Dust Cart	329	334	349	
Sweepers	589	510	595	
Miscellaneous	76	75	82	
TOTAL	1,119	1,033	1,146	

XI.-GENERAL.

1. BUDGET.

The Budget for the year \mathbf{A} That for 1915 was fixed at							385,449 385,498
Showing a decrease of	 	 	 	 	 	 "	49

TABLE LXXVI.

	1916	1915	Increase.	Decrease.
Chapter I.—Central Services.	L.E.	L.E.	L.E.	L.E
CHAPTER I.—CENTRAL SERVICES. Art. 1. Salaries, wages, and allowances "2. Transport "3. Food "4. Storage of serum "5. Forage and shoeing "6. Rent, water, light, sewage, etc "7. Books and periodicals "8. Telephones and telegrams "9. Petties "10. Purchase of animals Material	$\begin{array}{r} 68,704\\ 6,550\\ 868\\ 350\\ 879\\ 1,269\\ 372\\ 400\\ 1,774\\ 1,040\\\\ \end{array}$	$\begin{array}{r} 67,218\\ 6,550\\ 868\\ 350\\ 729\\ 1,216\\ 372\\ 394\\ 1,774\\ 1,969\\ 193\\ \end{array}$	1,486 - 150 53 - 6 - - - - - - - -	
CHAPTER IIINSPECTORATES.	82,206	81,633	1,695	1,122
Art. 11. Salaries, wages, and allowances "12. Transport "13. Rent, water, light, sewage, etc. "14. Telephones and telegrams "15. Petties "16. Free water fountains	54,041 7,868 2,476 510 313 3,000	$54,362 \\ 7,768 \\ 2,713 \\ 462 \\ 313 \\ 2,588$	-100 -48 -412	$-\frac{321}{237}$
	68,208	68,206	560	558
CHAPTER III.—Hospitals. Art. 17. Salaries, wages, and allowances 18. Transport 19. Rent, water, light, sewage, etc 20. Food 21. Forage and shoeing 22. Books and periodicals 23. Telephones and telegrams 24. Petties	52,427 1,872 10,045 30,058 43 31 333 984	50,429 1,822 7,874 25,987 48 31 284 974	$ \begin{array}{r} 1,998 \\ 50 \\ 2,171 \\ 4,071 \\ - \\ 49 \\ 10 \\ \end{array} $	
CHAPTER IVSCAVENGING AND WATERING SERVICE.	95,793	87,449	8,349	5
Art. 25. Salaries, wages, and allowances "26. Uniforms "27. Forage and shoeing "28. Water "29. Light, sewage, etc. "30. Upkeep of plant "31. Material "32. Stores, etc., sold to Municipalities and Local Commissions "33. Telephones and telegrams "34. Petties "35. Purchase of animals "36. Upkeep of gullies	23,435 450 11,424 5,913 205 2,270 5,608 3,000 60 100 1,096 1,460 55,021	23,46744111,1935,8142052,6706,3663,000602181,0961,46055,990	9 231 99 	$ \begin{array}{r} 32 \\ - \\ - \\ 400 \\ 758 \\ - \\ - \\ 118 \\ - \\ 1,308 \end{array} $
Carried forward	301,228	293,278	10,943	2,993

.

	1916	1915	Increase.	Decrease.
	L.E.	L.E.	L.E.	L.E.
Brought forward	301,288	293,278	10,943	2,993
CHAPTER VGENERAL EXPENSES.				1
Art. 37. General Stores	51,935	48,112	3,823	_
" 38. Uniforms	720	720		_
" 39. Repairs of material and equipment	2,441	2,441	-	-
" 40. Supplies to Provincial Councils	2,500	2,500	-	_
" 41. Sanitary barbers	1,500	1,500	-	-
" 42. Upkeep of buildings	5,919	5,809	110	
" 43. Alterations	800	800		-
" Sanitation of Mosques		410	-	410
" 44. Disinfecting ships	4,800	4,800		-
" 45. Maintenance of temporary lazarets	4 560	4 500		Mark and
at Gabbari	$\frac{4,560}{25,020}$	$4,560 \\ 34,754$		9,734
" 40. New Works	25,020			0,104
	100,195	106,406	3,933	10,144
To deduct :	401,423	399,684	14,876	13,137
Services rendered	15,974	14,186	-	1,788
TOTAL	385,449	385,498	14,876	14,925
	000,110	000,100		1 11,040
Net decrease		-		19
Not deserves			4	
Net decrease Original Credit			37	19 L.E.
Net decrease Original Credit To add :			4 37 L.E. . 636 . 14,550	L-в. (1,352
Net decrease Original Credit To add : Transfer from Ministry o			4 37 L.E. . 636 . 14,550	19 L.B.
Net decrease Original Credit To add : Transfer from Ministry o Supplementary Credit			4 37 L.E. . 636 . 14,550	L-в. (1,352
Net decrease Original Credit To add : Transfer from Ministry o Supplementary Credit To deduct :			4 37 L.E. . 636 . 14,550	L.E. (1,352 (5,186
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Credit To deduct : (a) Transfer to			4 	L.E. (1,352 (5,186
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Oredit To deduct : (a) Transfer to Survey Department, Min			4 	L.E. (1,352 (5,186
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Credit To deduct : (a) Transfer to Survey Department, Min Ministry of the Interior			4 	L.E. (1,352 (5,186
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Credit To deduct : (a) Transfer to Survey Department, Min Ministry of the Interior (b) For services rendered by			4 37 . L.E. . 636 . 14,550 . 14,550 . 138 . 487 . 312	L.E. (1,352 (5,186
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Credit To deduct : (a) Transfer to Survey Department, Min Ministry of the Interior			4 	L-E. (1,352 15,186 66,538
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Credit To deduct : (a) Transfer to Survey Department, Min Ministry of the Interior (b) For services rendered by			4 37 . L.E. . 636 . 14,550 . 14,550 . 138 . 487 . 312 . 241 . 241	1. K. (1, 352 (5, 186 (36, 538) 1,040 (5, 498)
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Credit To deduct : (a) Transfer to Survey Department, Min Ministry of the Interior (b) For services rendered by Economat Original Credit		(Statistics)	4 	1. E. 1. 352 15,186 36,538 1,040 35,498 55,449
Net decrease Original Credit		Statistics)	4 	1. K. (1, 352 (5, 186 (6, 538) 1,040 (5, 498)
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Credit To deduct : (a) Transfer to Survey Department, Min Ministry of the Interior (b) For services rendered by Economat Original Credit		Statistics)	4 	1. K. (1, 352 15, 186 36, 538 1,040 45, 498 35, 449 33, 433 8,882
Net decrease Original Credit To add : Transfer from Ministry of Supplementary Credit To deduct : (a) Transfer to Survey Department, Min Ministry of the Interior (b) For services rendered by Economat Original Credit		(Statistics)	4 	1,040 1,040 15,149 1,040 1

TABLE LXXVI (continued).

Further provision for the cost of services rendered to this Department has been made in the budgets of the following Departments :---

TABLE LXXVII.

				1916	1915
				L.E.	L.E.
Ministry of	Finance	(Stationery Office)		 1,540	1,299
"		(Government Press)		 1,500	2,346
"	17	(Post Office)		 1,792	1,629
		(Custome)		 550	550
Ministry of	Public V	Works (Bâtiments)		 -	238
Provinces a	nd Gover	norates (Police)		 228	222
Pensions .			••••	 11,961	11,028
		TOTAL		17,571	17,312

TABLE LXXVIII .- NEW WORKS.

	1916	Expended.
	L.E.	L.E.
mpletion of works at Alexandria Hospital and purchase of utensils	319	
1 . Plattling for States at Alexandria Hamital	91	
manhan Haspital algorita light installation	160	1.
malation of buildings Zagnaig Infections Hamitel	35	35
tension of Abbasiva Infectious Hospital	8,000	9,037
sr el 'Aini Hospital (connection with main drainage and installation of	0,000	0,001
water-closet in place of pails)	800	870
uipment for the Suez Hospital Laboratory	50	
rt Said Hospital (connexion with main drainage and installation of		and the second s
water-closet in place of pails)	610	538
ccine Institute enlargement	700	607
ccine Institute equipment	100	_
uipment for the Faiyûm Ophthalmic Hospital	470	320
tial cost of scavenging and watering new roads	513	513
ophylactic measures against ankylostoma	9,000	909
ophylactic measures against cholera	3,952	2,288
organization of archives	220	14
u el Ela latrines (connexion with main drainage.)	-	5
mm el Khalig disinfecting station (connexion with main drainage)	-	40
wenging and Watering Service (connexion with main drainage)	-	269
sr el 'Aini Hospital (construction of a destructor)	-	16
rchase of an automobile for Epidemic Service	-	240
ilding a new sewing room at Qasr el 'Aini Hospital	-	305
rt Said Infectious Hospital (counexion with main drainage)	-	267
gazig Infectious Hospital (electric light installation)	-	8
rchase of oil engine for supply of electric light to the Qasr el ^c Aini Hospital	-	428
	25,020	16,709

2. STAFF.

CATEGORY.	1916	1915	CATEGORY.	1916	1915
Technical. Director-General Assistant Director-General Directors of Sections (special class) President, Medical Commission President, Medical Commission Inspector, Cairo City Inspectors (special class) Divisional Inspectors Sub-Directors of Sections Vice-President Medical Commission Inspectors, 2nd class Inspectors, 2nd class "ard", "" Director of Technical Institutes Bacteriologist, 1st class	$1 \\ 1 \\ 3 \\ 1 \\ 2 \\ 7 \\ 2 \\ 1 \\ 1 \\ 7 \\ 8 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$1 \\ 1 \\ 3 \\ 1 \\ 1 \\ 2 \\ 7 \\ 2 \\ 1 \\ 1 \\ 7 \\ 19 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	Brought forward Midwives Director of Stores Chief Inspector of Pharmacies Assistant Inspector of Pharmacies Pharmacists, 3rd class Pharmacists, 3rd class Pharmacists, 3rd class Matching Service Inspector, Scavenging and Watering Service Assistant Inspector, Scavenging and Service Assistant Inspector, Scavenging and Watering Service Inspector	$275 \\ 44 \\ 1 \\ 1 \\ 4 \\ 14 \\ 5 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$272 \\ 44 \\ 1 \\ 1 \\ 4 \\ 14 \\ 5 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1224\\ -2222\\ -2222\\ 1\\ -4823\\ 174 \end{array}$	122 22 22 12 12 22 12 12 22 22 12 12 22 2	Clerical. Directors of Service	22249 18235 125129 1258	222 22 22 68 19 325 115 12 12 19
Carried forward	275	272	· TOTAL	556	546

TABLE LXXIX.-PERMANENT EMPLOYEES.

CATEGORY.		1915	CATEGORY.	1916	1915
Medical Officers Inspectors (Epidemics) Inspector (Stores) Engineers Matron Nursing Sisters Assistant, Laboratory, 1st class		$32 \\ 5 \\ 1 \\ 5 \\ 1 \\ 21 \\ 21 \\ 2$	Brought forward Clerks Works foremen Mechanic Meter inspector Stable masters Director, Antirabic Institute Storekeepers	$211 \\ 2 \\ 1 \\ 3 \\ 1$	
Carried forward	80	67	Тотац	316	248

TABLE LXXX.-TEMPORARY EMPLOYEES.

TABLE LXXXI.-HORS CADRE EMPLOYEES.

CATEGORY.	1916	1915	CATEGORY.	1916	1915
Chief attendants	5 9 12 32	$ \begin{array}{r} 44 \\ 148 \\ 69 \\ 1 \\ 7 \\ 6 \\ 12 \\ 32 \\ \overline{319} \end{array} $	Brought forward Cooks Printers Overseers Moawens Sanitary Barbers Mechanics Various categories TOTAL	547 45 31 20 173 1 800 1,620	319 34 3 29 13 253 1 620 1,272

N.B.—The number of Hors Cadre for 1915 does not include those who were attached to Qasr el 'Aini, Abbasiya Fever, Suez, Port Said, and Alexandria Hospitals.

3. AUTHORIZATIONS TO PRACTISE THE MEDICAL AND ALLIED PROFESSIONS,

The total number of authorizations to practise medicine, etc., granted during 1916 amounted to 86, subdivided as follows:---

	1	NATIONALITY,								
AUTHORIZATIONS.	British.	French.	Egyptians.	Italians.	Russians.	Greeks.	1915	1916		
Pharmaceutical :	4 	1	32 13 2 14 10 -	- 1 - 1 -	- - 1 - 1 -	2 1 - 1 -	53 $ 12$ 20 8	39 15 4 14 14		
	1			GRAND	TOTAL	···· ···	101	86		

TABLE LXXXII.

4. LEGAL.

The only new enactments bearing on the work of the Department published in 1916 were :---

An arrêté dated February 22, modifying the "Tableau nº 2" annexed to the Pharmacy Law. Copper sulfate is included.

Two arrêtés making additions to the list of the towns and villages where Law No. 13 of 1904 on the "Etablissements Insalubres, Incommodes et Dangereux de la catégorie 'B'" is to be applied: Arrêté of August 5: Qalyûbîya-Choubra el Kheima. Arrêté of September 23: Girga-Sâhel Tahta.

Law No. 18 of August 8: Filling and draining of ponds and marshes.

TABLE LXXXIII.-LEGISLATION.

CONTRAVENTIONS.

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TOTAL.	422	196	1,616	26		∞	61	136	59	1	69	155	1
.nhwaA	1	5	23	1		1	1	1	I	1	1	1	1.7
Qena.	1	1	88	1		I	I	59	E.	1	1	.1.	1
Girga.	1	1	112	12		1		00	1	1	1	1	1
Anyak	1	9	141	1		1	1	26	14	1	1	1	1
.einiM	I	10	144	1		1	1.	I	1	1	61	4	T
Fayûm.	1	11	82	1			1	-1	01	I	I	130	1
Beni Suef		1	18	1		1	1	1	1	I	1	6	1
.eziĐ	1	1	50	1		1	1	1	40	1	1	60	Ι
Beheirn.	1	03	151	03	-	1	1	64	9	I	1	1	I
Sharqfa-	1	10	116	1		I	P	1	1	Ι	1	1	1
. Daqabifya.	35	1	158	1		1	1	1	1	. 1	1	T	1
Gharbfya.	27	30	215	6		-	1	38	1-	I	1	I	1
Minufiya.	1	26	78	T			.]	1	1	1	1	00	1
Qalyûbiya.	п	9	89	1	2.1	1	1	1	I,	1	1	1	I
Damietta.	-	1	00	Т		I	1	I	- 1	1	1	1	1
.ailiamsI	1	1	6	1		1	l	1	1	1	1	1	1
-zəng	I	00	1	1		1	I	I	10	1	1	1	1
Port Said.	89	61	12	I		1	1	T	I	1	1	I	1
Cairo.	259	72	124	30		· 1	1	- 1	1	I	1	I	1
NAME OF LAW.	Vidange and dépotoirs. Regulation of November 8, 1886, modified by Arrêté of June 2, 1910	Practice of medicine. Arrêté of June 13, 1891	Vaccination. Decree of December 17, 1890, modified by Decree of August 6, 1897	Enclosure of vacant lands. Arrêté of June 15, 1893	CRMETERIES :	Inhumation, exhumation, and transport of bodies abroad. Regulations, approved by Conseil Sanitaire Interna- tional, of September 15, 1876, and March 26 and October 30, 1877	Transfer of cemeteries. Decree of January 29, 1894	Enclosure of cemeteries: unauthorized inhumation. Decree of March 12, 1898	PROPHYLACTIC MEASURES : Permanent and exceptional measures to prevent epide- mics. Arrêtés of May 11, 1895, and December 19, 1904	Oysters and shell-fish during epidemics. Arrêté of June 16, 1912	Cholera. Arrêté of October 17, 1895, and supplementary Arrêté of May 30, 1896	Plague and cholera. Decree of May 27, 1899, modified by Laws No. 3 of February 16, 1911, and No. 10 of April 27, 1913	Disinfection of houses during epidemics. Arrétés of May 23 and June 26, 1901

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13	I	4,110	35	19	20	1	32	87	1,075	. 808	89	643	437	10,084	8,915	320	509	340
. 1	1	25	1	1	1	1	1	1	38	6	1	1	1	100	78	63	6	H
1	• 1	703	.1	1	1	1	2	1	174	26	1	1	1	1,061	965	42	54	1
1	1	236	1	<u>a</u>	1	1	1	L	76	16	1	1	1	124	425	00	40	3
1	1	470	1.	1	1	. 1	60	1	75	61	57	1	46	913	873	23	17	1
- 1	1	85	10	1	1		1	15	108	24	1	61	5	405	387	15	60	1
1	1	39	1.	1	I	1	I	1	11	37	1	01	1	377	268	12	97	1
1	1	16	J	1	1	1	1		75	00	1	1	4	127	122	1	1	4
e0			1	1	8	1	I	1	15	61	1	1	18	220	189	22	4	5
	1	173		5	1	1	1	6	82	17	1	1	19	472	444	19	6	1
64	1	142	1	9	1	1	1	33	73	1	1	3	8	424	383	6	20	12
1	1	668	I	10	I	I	11	30	02	6	33	I	15	990	906	49	24	11
1	1	616	15	9	1	1	1	60	81	68	1	1	55	1,149	1,050	. 38	48	13
51	1	683	1-	1	I	1	6.	13	70	16	I	1	19	932	830	19	22	9
1	1	611	1	-1	1	1	-	1	12	15	24	61	9	287	247	10	28	67
1	1	24	I	+	1	1	1	1	1	9.	I	I	1	44	42	1	1	1
I	1	1	1	1	1	1	1	1	1-	1-	1	1	1	20	17	1		
1	1	1	I	1	1	1	1	1	61	68	1	1	61	87	84	01	1	1
I	1	1	I	1	1	1	1	1	61	10	61	1	1	118	100		1	18
1	I	52	4	29	11	1	I	I	44	387	1	634	239	1,887	1,505	54	11	251
Passenger control in case of cholera abroad. Arrété of January 21, 1911	Navigation on the Mahmudia Canal in time of cholera. Arreté of January 16, 1911	Prophylactic measures against infectious diseases. Law No. 15 of June 12, 1912	Excavations and <i>birkas</i> near habitations. Decree of April 26, 1900	Pharmacy and sale of poisons. Law No. 14 of September 15, 1904	Assistant pharmacists. Law No. 20 of November 17, 1911	Transport of rags during epidemics. Law No.1 of March 10, 1906, and Arrêté of October 30, 1913	Control of returning pilgrims. Arrêté of June 14, 1914	Public latrines and <i>dépendances</i> of mosques and <i>zavias</i> . Law No. 14 of July 1, 1911	Births and deaths. Decree of August 11, 1912	Etablissements incommodes, insalubres et dangereux. Law No. 13 of August 28, 1904, and Arrêté of August 29, 1904, completed by Arrêté of June 11, 1905	Cleanliness of streets. Arrêté of June 7, 1913	Adulteration of milk under Article 302 of the Penal Code	General sanitary contraventions against Native and Mixed Penal Codes	TOTAL Number reported	Convictions obtained	Acquittals	Filed	Under consideration

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