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COUNCIL PAPER.

No. 72.]

[1881.

THIRTY-SEVEN. SURGEON-GENERAL'S OFFICE.

29TH SEPTEMBER, 1881.

SIR,

I have the honor to forward for the information of His Excellency the Governor, and the Legislative Council, the Return of successful Vaccinations performed in the Colony during the year 1880.

I enclose also a copy of the Return for the previous year, which though duly forwarded in February, 1880, has not yet been published.

Together with the Returns is submitted, an abstract of the Vaccinations performed each year, since the passing of the Vaccination Ordinance No. 23 of 1872, and of the Births during the corresponding years.

The total number of successful Vaccinations performed in 1880 is 4641, being an increase of 1751 over the number of the preceding year 1879. In my report for that year, I pointed out that there had been a falling off in the Vaccinations, due to illness of Medical Officers, failure of Lymph supply, &c.

During 1880 effective measures were in operation to maintain the Lymph supply, the year was comparatively healthy, and the District Medical Officers had more leisure and opportunities for vaccination.

One of the Medical Officers attached to the Hospital, was sent specially to vaccinate in the Mornga Ward, which from its remoteness, had been neglected since the passing of the Ordinance.

With the able assistance of the Ward Constable, all the children under the prescribed age, 16, were sought out, and all but one successfully vaccinated.

The total number of Vaccinations performed in the Ward was 175, while the total number of births registered, in the 8 years that had elapsed since the passing of the Ordinance, is 178.

From these figures it may be inferred, that the Vaccination of the Juvenile portion of the population of that Ward has been very complete.

The same Medical Officer also performed a number of Vaccinations, in the outlying and comparatively neglected Wards of Turure and Matura, when on a special visit to the district, in consequence of an outbreak of Dysentery.

This plan of sending Medical Officers specially to remote districts, for Vaccination purposes, has answered so well, that it might I think be continued with advantage, as occasion requires.

From the Abstract of the Yearly Returns it will be seen that the total number of births registered since 1872 has been 36,516 and that the total number of successful Vaccinations for the same period has been 27,393.

The deaths of children occurring within 3 months after birth, at which age vaccination in this Colony practically commences have been estimated from the statistics of the past 4 years to amount to $10\frac{1}{4}$ per cent. of the births.

A Return of the deaths of children under 3 months during the past 4 years is appended. It is instructive as shewing the relative mortality of young infants in different parts of the Colony.

If a deduction is made from the total number of births, of the children dying within 3 months the proportion of vaccinations to the children remaining will be about 85 per cent.

Great care is now taken to maintain the character and efficiency of the Lymph supply by frequent importations of fresh Lymph from England. The quality and protective power of the Vaccinations may therefore be regarded as satisfactory.

Continued experience seems to shew that the Lymph in this climate, from some cause or other, deteriorates by repeated transmissions and that the renewal of the stock from time to time is absolutely necessary to maintain the efficiency of the Vaccinations.

The average number of vesicles for each child vaccinated during the past year has been over 3. This may be regarded as a fair average.

An opinion has been expressed of late years and has been gaining ground that the protective power of primary Vaccinations depends in some measure on the number of *good* vesicles produced. Instructions are therefore given to the District Vaccinators to make if practicable not less than 4 insertions of Lymph in each case of primary Vaccination.

Through the attention now paid to Vaccination the protection of the Colony against the possibility of a severe outbreak of Small-pox is yearly increasing and would increase more rapidly were it not for the number of unvaccinated persons coming into the Colony from other West India Islands.

I may mention in concluding this report that a passenger by the Steamer "Muriel," from New York, landed at Port-of-Spain on the 25th of April last, with an eruption which was not recognized as Small-pox, and that on the 6th of May his infant child was discovered to have the characteristic eruption of this disease which later assumed the confluent form and a fatal issue resulted. On the 11th another case of modified Small-pox was discovered which ran a mild course.

A house-to-house visitation was then commenced and carried out with the result of no further cases of the disease being discovered and it was also ascertained at the same time by careful enquiry that there were only some 384 persons (children above 3 months and adults resident in the town who were unprotected from Small-pox by Vaccination or a previous attack of the disease.

It is satisfactory to contrast these results with the epidemic of '71 and '72 when a single imported case spread infection throughout the Colony to 12,351 persons of whom 2,449 died. The number attacked in Port-of-Spain alone was 3,684 and the deaths 852.

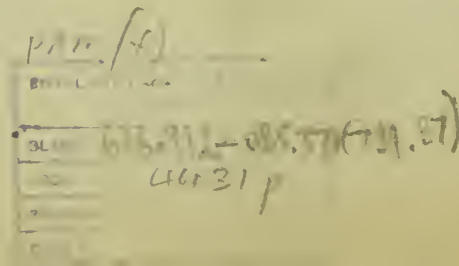
I have the honour to be,

Sir,

Your obedient Servant,

S. LEONARD CRANE,
Surgeon-General.

The Hon.
COLONIAL SECRETARY.



RECAPITULATION OF VACCINATION RETURNS FOR THE YEARS 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1879 & 1880.

BOROUGH or WARD.	1873.			1874.			1875.			1876.			1877.			1878.			1879.			1880.			Total Vaccinations.	Total Births.	Percentage of Vaccination to Births.	Average No. of Vesicles.	
	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.								
																						Population Census 1871.							
Port-of-Spain	896	596	3½	809	427	3½	836	617	3½	876	902	3½	908	571	3	864	651	2½	942	270	3½	1125	780	3½	7256	4844	67	3½	
San Fernando	187	151	6½	181	46	3½	197	239	2½	232	...	...	214	...	...	193	257	3	203	148	3½	221	182	2½	1646	1023	60	3½	
Shipping	155	...	...	14	3½	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	169	169	3½	3½
Arima	246	141	3½	179	201	3½	210	76	3½	260	169	2½	240	224	2½	283	199	3	245	226	3½	256	214	3	1922	1450	75	3½
Cedros	162	123	3	137	109	2½	96	112	2½	119	88	2½	121	142	2	97	64	2	141	...	...	140	69	3½	1013	707	69	2½
Couva	364	99	3½	373	36	2½	293	201	2½	369	654	3	387	692	2½	386	479	2½	466	386	3½	494	597	3½	3132	3144	99	3
Caroni	146	96	3½	154	60	1½	117	35	3½	151	132	2½	145	122	2½	155	91	2½	244	146	3	236	179	3½	1348	861	64	2½
Diego Martin	...	328	304	3½	297	235	3½	306	224	3½	347	311	2½	321	26	3½	386	214	3	342	315	2½	342	326	3½	2619	1955	75	3½
Mayaro	91	22	3½	73	46	3	88	48	3	87	86	3½	85	...	...	75	17	2	89	64	2½	77	98	2½	665	381	57	2½
Montserrat	...	187	112	3½	228	1	3	210	166	3	241	63	2½	253	43	2½	234	248	1½	274	51	2	302	103	3½	1929	787	40	2½
Moruga	14	...	...	24	...	18	...	...	...	31	...	...	19	...	...	23	...	...	24	...	...	25	175	3½	178	175	98	3½
North Naparima	...	513	472	4	523	577	4½	543	402	3	605	409	3	639	644	5½	614	537	4	616	430	4	712	720	3½	4765	4191	88	3½
South do.	...	333	196	2½	331	409	3	238	232	3½	435	133	3	276	119	3	265	209	3	297	286	3	321	306	3	2496	1890	75	3
St. Ann's...	...	297	218	3½	265	247	3½	243	292	4	279	140	3½	271	154	3½	284	85	2½	299	93	3½	320	328	3½	2258	1527	67	3½
Tacarigua	...	481	299	3½	566	690	3	516	532	3½	612	463	3½	632	586	3½	594	449	2	670	478	2½	699	566	3½	4770	4061	85	3½
Toco	77	10	3	61	55	3½	53	59	3½	69	49	2½	64	33	3	67	19	2½	52	33	3½	76	...	...	519	258	50	3
		4322	2994	...	4204	3153	...	3964	3205	...	4713	3599	...	4575	3356	...	4470	3519	...	4912	2926	...	5346	4641	...	36516	27393	75	3½

RETURN OF VACCINATIONS FOR 1879.

WARDS OR DISTRICTS.	DISTRICT VACCINATORS.	BIRTHS 1879.				VACCINATIONS 1879.												Total Births.	Total Vaccinations.	Percentage of Vaccinations to Births.	Average No. of Vesicles.													
		1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	1st Q'ter.		2nd Q'ter.		3rd Q'ter.		4th Q'ter.		Total.		1st Quarter.	2nd Quarter.					3rd Quarter.	4th Quarter.											
						Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.									Successful.	Unsuccessful.									
Port-of-Spain S.E.	Dr. Knaggs	232	220	232	258	942	7	1	121	35	6	40	25	...	102	8	4	270	69	11	3	32	32	31	942	270	28	13						
Do. S.W.	Drs. De Wolf and Arnold	1687	20	23	23	88	...	...	76	...	...	...	...	...	...	...	...	76	...	...	...	...	...	...	...	88	76	86	10				
Do. N.W.	" " "	1448	18	16	13	17	64	8	51	...	...	...	...	...	25	...	...	84	...	...	...	...	...	...	...	64	84	131	24				
Do. N.E.	" " "	2171	37	21	20	29	107	...	92	...	2	...	...	...	8	...	...	100	...	...	...	...	...	...	...	107	100	93	21				
Shipping	" " "	1224	13	15	10	13	51	...	29	...	...	...	...	...	26	...	...	55	...	...	...	...	...	...	...	51	55	107	24				
Maracay	" " "	753	11	4	7	10	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diego Martin	" " Farfan and Morrison	1775	22	21	18	16	77	...	25	...	5	...	...	...	...	...	...	25	...	...	...	...	...	...	...	...	...	...	...	...	...
Carenage	" " Knaggs	808	6	7	9	6	28	...	24	...	5	...	...	...	2	...	...	62	...	...	...	...	...	...	...	...	...	...	...	...	...
Chagnatamas	" " De Wolf	1071	12	7	3	5	25	...	...	...	...	...	...	...	6	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Lauventille	" " "	1643	14	11	15	22	62	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Ann's	" " "	2252	33	26	26	22	107	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cimaroneo	" " "	2760	50	30	39	42	161	...	56	...	13	...	...	...	18	...	...	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Aricagua	" " De Wolf and Devenish	1352	18	10	21	15	64	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Santa Cruz	" " "	7371	92	85	100	104	381	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Joseph's	" " Murray	989	13	18	14	19	64	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maracas	" " "	3295	39	49	43	57	188	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tacarigua	" " Murray and Livingston	496	8	12	9	7	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Caura	" " "	599	7	7	2	8	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Arima	" " "	806	7	3	3	6	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Guanapo	Mr. L. P. Pierre	472	3	6	7	6	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Turure	" " "
Toco	" " "
Blanchissense	" " "
		Carried forward				143	20	9	665	7815	258	49	5	349	32	9	1415	179	38	...	...	...	...	...	...	...	2553	1415	...	...	...	...	...

RECAPITULATION OF VACCINATION RETURNS FOR THE YEARS 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1878 & 1879.

Boroughs or Wards.	1873.			1874.			1875.			1876.			1877.			1878.			1879.			Total Births.	Total Vaccinations.	Percentage of Vaccinations to Births.	Average No. of Vesicles.			
	Population Census 1871.			Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.	Births.	Vaccinations.	Vesicles.							
	Births.	Vaccinations.	Vesicles.																									
Port-of-Spain	23561	896	596	3 $\frac{1}{2}$	809	427	3 $\frac{1}{2}$	836	617	3 $\frac{1}{2}$	876	902	3 $\frac{1}{2}$	908	571	3	864	651	2 $\frac{1}{2}$	942	270	3 $\frac{1}{2}$	6131	4034	65	3 $\frac{1}{2}$		
San Fernando	5006	187	151	6 $\frac{1}{2}$	184	46	3 $\frac{1}{2}$	197	239	2 $\frac{1}{2}$	232	...	...	214	...	...	193	257	3	208	148	3 $\frac{1}{2}$	1415	841	59	4
Shipping	155	3 $\frac{1}{2}$...	14	3 $\frac{1}{2}$	169	
Arima...	4390	246	141	3 $\frac{1}{2}$	179	201	3 $\frac{1}{2}$	210	76	3 $\frac{1}{2}$	260	169	2 $\frac{1}{2}$	240	224	2 $\frac{1}{2}$	283	199	3	248	226	3 $\frac{1}{2}$	1666	1236	74	3 $\frac{1}{2}$		
Cedros...	4241	162	123	3	137	109	2 $\frac{1}{2}$	96	112	2 $\frac{1}{2}$	119	88	2 $\frac{1}{2}$	121	142	2 $\frac{1}{2}$	97	61	2	141	...	...	873	638	73	2 $\frac{1}{2}$
Conva...	10253	364	99	3 $\frac{1}{2}$	373	36	2 $\frac{1}{2}$	293	201	2 $\frac{1}{2}$	369	654	3 $\frac{1}{2}$	387	692	2 $\frac{1}{2}$	386	479	2 $\frac{1}{2}$	466	386	3 $\frac{1}{2}$	2638	2617	96	2 $\frac{1}{2}$		
Caroni...	4714	146	96	3 $\frac{1}{2}$	154	60	1 $\frac{1}{2}$	117	85	3 $\frac{1}{2}$	151	132	2 $\frac{1}{2}$	145	122	2 $\frac{1}{2}$	155	91	2 $\frac{1}{2}$	244	146	3	1112	682	61	2 $\frac{1}{2}$		
Diego Martin	7283	328	304	3 $\frac{1}{2}$	297	235	3 $\frac{1}{2}$	306	224	3 $\frac{1}{2}$	347	311	3 $\frac{1}{2}$	321	26	3 $\frac{1}{2}$	336	214	3	342	315	2 $\frac{1}{2}$	2277	1529	61	3 $\frac{1}{2}$		
Mayaro	1915	91	22	3 $\frac{1}{2}$	73	46	3	88	48	3	87	86	3 $\frac{1}{2}$	85	...	...	75	17	2	89	64	2 $\frac{1}{2}$	588	283	48	3
Montserrat	3388	187	112	3 $\frac{1}{2}$	228	1	3	210	166	3	241	63	2 $\frac{1}{2}$	253	48	2 $\frac{1}{2}$	231	248	1 $\frac{1}{2}$	274	51	2	1627	684	42	2 $\frac{1}{2}$		
Moruga	396	14	19
North Naparima	12779	513	472	4	523	577	4 $\frac{1}{2}$	543	402	3	605	409	3	639	644	5 $\frac{1}{2}$	614	537	4	616	430	4	4053	3471	85	4		
South do.	10433	333	196	2 $\frac{1}{2}$	331	409	3	238	232	3 $\frac{1}{2}$	435	133	3	276	119	3	265	209	3	297	286	3	2175	1584	72	3		
St. Ann's	7549	297	218	3 $\frac{1}{2}$	265	247	3 $\frac{1}{2}$	243	262	4	279	140	3 $\frac{1}{2}$	271	154	3 $\frac{1}{2}$	284	85	2 $\frac{1}{2}$	299	93	3 $\frac{1}{2}$	1938	1199	61	3 $\frac{1}{2}$		
Tacarigua	12472	481	299	3 $\frac{1}{2}$	566	690	3	516	532	3 $\frac{1}{2}$	612	463	3 $\frac{1}{2}$	632	586	3 $\frac{1}{2}$	594	449	2	670	478	2 $\frac{1}{2}$	4071	3497	86	3		
Toco ...	1278	77	10	3	61	55	3 $\frac{1}{2}$	53	59	3 $\frac{1}{2}$	69	49	2 $\frac{1}{2}$	64	33	3	67	19	2 $\frac{1}{2}$	52	33	3 $\frac{1}{2}$	443	258	58	3		
	4322	2994	...	...	4204	3153	...	3964	3205	...	4713	3599	...	4575	3356	...	1470	3519	...	4912	2926	...	31160	22752	70	3

RETURN OF CHILDREN THAT HAVE DIED UNDER THREE MONTHS IN THE
SEVERAL DISTRICTS OF THE ISLAND FOR THE YEARS 1877, 1878,
1879 AND 1880.

DISTRICTS.	1877.			1878.			1879.			1880.		
	Births.	Deaths.	Percentage.	Births.	Deaths.	Percentage.	Births.	Deaths.	Percentage.	Births.	Deaths.	Percentage.
Port-of-Spain	908	110	12 $\frac{1}{4}$	864	99	11 $\frac{1}{2}$	942	112	11 $\frac{3}{4}$	1125	132	11 $\frac{3}{4}$
Laventille	61	5	8 $\frac{1}{4}$	74	4	5 $\frac{1}{2}$	77	6	7 $\frac{3}{4}$	76	10	13
St. Ann's	33	...	...	31	...	...	28	...	...	30	4	13 $\frac{1}{4}$
Santa Cruz	95	9	9 $\frac{1}{2}$	102	5	5	107	7	6 $\frac{1}{2}$	112	11	9
Aricagua	55	6	11	51	4	8	62	4	6 $\frac{1}{2}$	62	6	9
Cimaronero	27	2	7 $\frac{1}{2}$	26	1	3 $\frac{3}{4}$	25	2	8	40	5	12
Diego Martin	93	11	11 $\frac{3}{4}$	97	8	8 $\frac{1}{4}$	107	4	3 $\frac{3}{4}$	106	6	5
Carenage	62	7	11 $\frac{1}{4}$	62	14	22 $\frac{1}{2}$	51	5	10	59	3	5
Chaguaramas	34	...	...	44	2	4 $\frac{1}{2}$	32	4	12 $\frac{1}{2}$	37	2	5
Mucurapo	67	16	24	83	14	16 $\frac{3}{4}$	88	19	21 $\frac{1}{2}$	91	20	21
Maraval	65	3	4 $\frac{3}{4}$	50	4	8	64	...	...	49	8	16
St. Joseph	131	6	4 $\frac{1}{2}$	159	13	8 $\frac{1}{4}$	168	8	4 $\frac{3}{4}$	155	14	8
Tacarigua	375	22	5 $\frac{3}{4}$	302	23	7 $\frac{1}{2}$	381	34	9	417	30	7
Caura	62	2	3 $\frac{1}{4}$	58	4	7	64	4	6 $\frac{3}{4}$	58	2	3
Maracas	64	1	1 $\frac{1}{2}$	75	2	2 $\frac{3}{4}$	64	2	3 $\frac{1}{4}$	69	3	4
Arima	170	8	4 $\frac{3}{4}$	204	11	5 $\frac{1}{4}$	188	18	9 $\frac{1}{2}$	212	19	9
Guanapo	16	3	9	22	1	4 $\frac{3}{4}$	36	1	2 $\frac{3}{4}$	16	...	...
Blanchisseuse	26	2	7 $\frac{3}{4}$	29	4	13	27	3	11	42	2	4
Turure	19	...	...	27	1	3 $\frac{1}{4}$	24	2	8 $\frac{1}{2}$	28	1	3
Toco	38	1	2 $\frac{3}{4}$	38	4	10 $\frac{1}{2}$	25	...	...	34	3	9
Lower Caroni	51	7	13 $\frac{3}{4}$	36	6	16 $\frac{3}{4}$	48	4	8 $\frac{1}{2}$	41	3	7
Chaguanas	79	11	14	92	16	17 $\frac{1}{4}$	137	15	10 $\frac{3}{4}$	133	31	23
Carapichaima	15	4	26 $\frac{1}{2}$	27	2	7 $\frac{1}{2}$	30	3	10	20	1	5
Savonetta	132	22	16 $\frac{1}{2}$	134	16	12	157	12	7 $\frac{3}{4}$	190	29	15
Couva	134	17	12 $\frac{3}{4}$	125	12	9 $\frac{3}{4}$	139	16	11 $\frac{1}{2}$	144	14	9
Montserrat	253	25	9 $\frac{3}{4}$	234	19	8	274	19	7	302	2	9
Upper Caroni	35	...	...	39	1	3 $\frac{1}{4}$	59	...	...	62	4	6
Manzanilla	20	4	20	16	1	6 $\frac{1}{4}$	23	2	8 $\frac{3}{4}$	9	2	22
San Fernando	214	15	7	193	26	13 $\frac{1}{2}$	208	27	13	221	34	15
Pointe-à-Pierre	121	15	12 $\frac{1}{2}$	127	18	14	140	12	8 $\frac{1}{2}$	140	15	9
North Naparima	175	26	15	175	35	20	178	11	6 $\frac{1}{4}$	178	19	13
South Naparima	239	26	10 $\frac{3}{4}$	227	22	9 $\frac{1}{2}$	229	23	10	254	24	9
Savana Grande	464	50	10 $\frac{3}{4}$	393	43	10 $\frac{3}{4}$	438	41	9 $\frac{1}{2}$	534	72	13
Cedros	76	8	10 $\frac{3}{4}$	96	10	10	100	8	8	105	9	8
Erin	40	1	2 $\frac{1}{2}$	22	...	...	41	2	4 $\frac{3}{4}$	35	6	17
La Brea	5	2	40	16	3	18 $\frac{3}{4}$	10	...	...	7	...	...
Oroponche	37	8	21 $\frac{3}{4}$	38	2	5 $\frac{1}{4}$	5	11	19	60	14	23
Moruga	19	1	5 $\frac{1}{4}$	23	1	4 $\frac{3}{4}$	24	5	20 $\frac{3}{4}$	25	2	8
Nariva	12	1	8 $\frac{1}{4}$	6	1	16 $\frac{3}{4}$	8	1	12 $\frac{1}{4}$	13	3	23
Mayaro	53	10	18 $\frac{3}{4}$	53	7	13 $\frac{1}{4}$	58	7	12	35	9	16
	4575	467	10 $\frac{1}{4}$	4470	459	10 $\frac{1}{4}$	4912	453	9 $\frac{1}{4}$	5346	604	11

VACCINATION.

Report by Surgeon - General, forwarding
Return of successful Vaccinations for
1880.

LEGISLATIVE COUNCIL.

1st October, 1881.
