

Vaccination : report by Surgeon-General, forwarding return of successful vaccinations for 1880 : legislative Council, 1st October 1881 / S. Leonard Crane.

Contributors

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COUNCIL PAPER.

No. 72.]

[1881.]

TRINIDAD. 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 Moraga 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 27,333.

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 10½ 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 showing 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 show 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.

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RETURN OF VACCINATIONS FOR 1880.

WARDS OR DISTRICTS.	DISTRICT VACCINATORS.	BIRTHS.				VACCINATIONS 1880.												AVERAGE No. of Vesicles.	Percentage of Vaccinations to Births.	Total Vaccinations.	Total Births.	Average No. of Vesicles.											
		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Total.		1st Quarter.		2nd Quarter.		3rd Quarter.							4th Quarter.		Total.								
		Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.						Successful.	Unsuccessful.	Successful.	Unsuccessful.							
Population Census 1871.		Total.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Total.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Total.		Average No. of Vesicles.		Percentage of Vaccinations to Births.		Total Vaccinations.		Total Births.		Average No. of Vesicles.	
Port-of-Spain, S. E.	Dr. Knaggs	23561	283	274	261	307	1125	103	...	150	1	128	...	126	11	511	12	...	63	31	31	31	1125	780	69	...	...	...	...	...	...
Do. S. W.	Do.	...	...	...	...	...	...	44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. N. E.	Dr. Arnold	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. N. W.	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shipping	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mucurapo	Dr. Woodcock	1687	34	16	25	16	91	63	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maraval	Do.	1448	14	13	12	9	49	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diego Martin	Do.	2171	19	27	28	32	100	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carenago	Do.	1924	19	12	14	14	59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chaguaramas	Do.	753	13	13	9	2	37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Laventille	Dr. Knaggs	1775	20	13	21	21	76	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Ann's	Do.	808	7	9	2	12	30	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cimarocero	Do.	1071	12	13	10	5	40	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Aricagua	Dr. De Wolf	164	20	11	17	14	62	68	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sta. Cruz	Do.	2252	27	34	32	19	112	61	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Joseph's	Do.	2760	42	46	30	37	155	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maracas	Do.	1352	22	22	14	11	60	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tacarigua	Dr. Murray	2371	126	104	86	101	417	99	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Caura	Do.	889	20	14	17	7	58	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Arina	Dr. Farfan	3295	52	56	58	46	212	120	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Guacapo	Do.	496	6	2	8	0	16	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tururo	Do.	599	8	4	11	5	28	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Toco	Mr. L. P. Piere	806	9	8	10	7	34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blanchisseuse	Do.	472	15	9	7	11	42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carried forward		...	...	...	...	...	...	639	5215	684	58	7	453	52	1	378	7511	2214	237	36	...	...	2818	2214	...	...	...	...	...	...	...	...	...

RETURN OF VACCINATION FOR 1880.—CONTINUED.

WARDS OR DISTRICTS.	DISTRICT VACCINATORS.	Population Census 1871.	BIRTHS.				VACCINATIONS 1880.												Total Births.	Total Vaccinations.	Percentage of Vaccinations to Births.	Average No. of Vesicles.			
			1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Total.										
							Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.									
																	Doubtful.	Doubtful.					Doubtful.	Doubtful.	Doubtful.
Brought forward		...	...	...	...	...	...	699	5213	684	58	7	453	52	1	378	7515	2214	23736	...	...	...	...
Manzanilla	Dr. R. H. E. Knaggs	350	...	...	...	...	...	43	5	...	...	...	...	...	...	...	...	...	43	5	...	9	43	477	34
Nariva	Do.	292	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mayaro	Do.	1273	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Caroni, Upper	...	668	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Caroni, Lower	...	1388	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chaguanas	Dr. de Verteuil	2678	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carapichaima	Dr. Jenvey	434	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Couva	Do.	2900	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Savonetta	Do.	4143	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pointe-à-Pierre	Dr. Dervenish	2756	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montserrat	Dr. Chittenden	3388	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Naparima East	Dr. Johnstone	3805	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. West	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Savara Grande North	Dr. Hammond	8974	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. South	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
San Fernando	Dr. Fitt	5000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Naparima East	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. West	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oropouche	Dr. Thompson	1646	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
La Brea	Do.	264	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cedros	Dr. Dumaine and Cleaver	3802	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erin	Do.	175	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Moruga	Dr. Fabien	396	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		1469	10636	1515	10613	745	94	4	912	15837	4641	46490	...	...	...	...	...	...	...	...	...	...	...	...	...

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

BOROUGH OR WARD.	1873.			1874.			1875.			1876.			1877.			1878.			1879.			1880.			Total Births.	Total Vaccinations.	Percentage of Vaccination to Births.	Average No. of Vaccines.		
	Population Census 1871.																													
	Births.	Vaccinations.	Vaccines.	Births.	Vaccinations.	Vaccines.	Births.	Vaccinations.	Vaccines.	Births.	Vaccinations.	Vaccines.	Births.	Vaccinations.	Vaccines.	Births.	Vaccinations.	Vaccines.	Births.	Vaccinations.	Vaccines.	Births.	Vaccinations.	Vaccines.						
Port-of-Spain	23561	896	536	34	809	427	34	836	617	34	876	902	34	908	571	3	864	651	24	942	270	34	1125	780	34	7256	4844	67	34	
San Fernando	5006	187	151	64	184	46	34	197	239	24	232	...	...	214	...	...	193	257	3	208	148	34	221	182	24	1646	1023	60	34
Shipping	155	14	34	169	169	...	34
Arima ...	4390	246	141	34	179	201	34	210	76	34	260	169	24	240	224	24	283	199	3	245	226	34	256	214	3	1922	1450	75	34	
Cedros ...	4241	162	153	8	137	109	24	96	112	24	119	88	24	121	142	24	97	64	2	141	...	...	140	69	34	1013	707	69	24
Conva ...	10253	364	99	34	373	36	24	293	201	24	369	654	3	387	692	24	386	479	24	466	386	34	494	597	34	3132	3144	99	3	
Caroni ...	4714	146	96	34	154	60	14	117	35	34	151	132	24	145	122	24	155	91	24	244	146	3	236	179	34	1348	861	64	24	
Diego Martin	7283	328	304	34	297	235	34	306	224	34	347	311	24	321	26	34	336	214	3	342	315	24	342	326	34	2619	1955	75	34	
Mayaro ...	1915	91	22	34	73	46	3	88	48	3	87	86	34	85	...	...	75	17	2	89	64	24	77	98	24	665	381	57	24
Montserrat	3388	187	112	34	228	1	3	210	166	3	241	63	24	253	43	24	234	248	14	274	51	2	302	103	34	1929	787	40	24	
Moruga ...	896	14	...	...	24	...	...	18	...	...	31	...	...	19	...	...	23	...	...	24	...	...	25	175	34	178	173	98	34
North Naparima	12779	513	472	4	523	577	41	543	402	3	605	409	3	639	644	51	614	537	4	616	430	4	712	720	34	4765	4191	88	34	
do.	10433	333	196	24	331	409	3	238	232	34	435	133	3	276	119	3	265	209	3	297	286	3	321	306	3	2496	1890	75	3	
St. Ann's...	7549	297	218	34	265	247	34	243	262	4	279	140	34	271	154	34	284	85	24	299	93	34	320	328	34	2258	1527	67	34	
Tacarigua	12472	481	299	34	566	690	3	516	532	34	612	463	34	632	586	34	594	449	2	670	478	24	699	566	24	4770	4061	85	34	
Toco ...	1278	77	10	3	61	55	34	53	59	34	69	49	24	64	33	3	67	19	24	52	33	34	76	...	...	519	258	50	3
	4322	2994	...	4204	3153	...	3964	3205	...	4713	3599	...	4375	3356	...	4470	3319	...	4912	2926	...	5346	4641	...	36516	27393	75	34		

RETURN OF VACCINATIONS FOR 1879.

WARDS OR DISTRICTS.	DISTRICT VACCINATORS.	BIRTHS 1879.					VACCINATIONS 1879.												AVERAGE No. OF VESICLES.	Percentage of Vaccinations to Births.	Total Vaccinations.	Total Births.			
		Population Census 1871.					1st Q'ter.			2nd Q'ter.			3rd Q'ter.			4th Q'ter.							Total.		
		1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.	Successful.	Unsuccessful.	Doubtful.	Successful.	Unsuccessful.	Doubtful.	Successful.	Unsuccessful.	Doubtful.	Successful.	Unsuccessful.	Doubtful.					Successful.	Unsuccessful.	Doubtful.
Port-of-Spain S.E.	Dr. Knaggs	23561	232	220	232	258	942	7	1	1	121	35	6	40	25	102	8	4	270	69	113	31	31	298	31
Do. S.W.	Drs. De Wolf and Arnold	1687	20	22	23	23	88	8	...	...	76	...	...	...	...	...	...	...	...	...	...	...	...	...	86
Do. N.W.	"	1448	18	16	13	17	64	...	...	...	51	...	...	...	...	...	...	...	...	...	...	...	...	...	131
Do. N.E.	"	2171	37	21	20	29	107	...	...	...	92	...	...	...	...	...	...	...	...	...	...	...	...	...	193
Shipping	Dr. Farfan	1224	13	13	10	13	51	...	...	...	29	...	...	...	...	...	...	...	...	...	...	...	...	...	107
Mucurapo	"	753	11	4	7	10	32	...	...	...	25	...	...	...	...	...	...	...	...	...	...	...	...	...	53
Maraval	"	1775	23	21	18	16	77	...	...	...	24	...	...	...	...	...	...	...	...	...	...	...	...	...	107
Diego Martin	"	808	6	7	9	6	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	53
Carenago	"	1071	12	8	8	5	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	77
Chaguaramas	"	1643	14	11	15	22	62	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
Laventille	"	2252	33	26	26	22	107	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	62
St. Ann's	"	2700	50	30	39	42	161	...	...	...	56	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Cinaronero	"	1352	18	10	21	15	64	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	25
Aricagua	"	7371	92	85	100	104	381	...	...	...	91	...	...	...	...	...	...	...	...	...	...	...	...	...	32
Santa Cruz	Drs. De Wolf and Devenish	989	13	18	14	19	64	...	...	...	25	...	...	...	...	...	...	...	...	...	...	...	...	...	34
St. Joseph's	"	3295	39	49	43	57	188	...	...	...	55	...	...	...	...	...	...	...	...	...	...	...	...	...	221
Maracas	Dr. Murray	496	8	12	9	7	36	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Tacarigua	"	3299	7	7	2	8	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Caura	"	806	7	9	3	6	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Arina	"	472	8	6	7	6	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Guanapo	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Tururo	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Teco	Mr. L. P. Pierre	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Blanchisseuse	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Carried forward		143	20	9	665	7815	258	49	5	349	32	9	1415	179	38	...	...	...	...	...	...	...	...	...	...
	

RETURN OF VACCINATIONS FOR 1879.—CONTINUED.

WARDS OR DISTRICTS.	DISTRICT VACCINATORS.	BIRTHS 1879.				VACCINATIONS 1879.										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.		Total Births.	Total Vaccinations.	Percentage of Vaccinations to Births.	Average No. of Vesicles.							
						Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.	Successful.	Unsuccessful.											
																				Doubtful.	Doubtful.	Doubtful.	Doubtful.	Doubtful.	Doubtful.	Doubtful.
Brought forward		...	...	...	...	148	20	9	665	7815	258	49	5	349	32	9	1415	179	38	...	...	2553	1415	...	...
Manzanilla	Dr. R. H. E. Knaggs	350	10	4	3	6	23	...	...	5	10	...	...	8	...	...	13	19	...	2	24	23	13	56	24
Nariva	" Do.	292	5	1	...	2	8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mayaro	" Do.	1573	12	10	13	23	58	...	...	28	12	...	...	5	...	...	51	21	13	24	3	58	51	88	24
Upper Caroni	" Do.	668	15	15	15	59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lower Caroni	Dr. Murray	1268	14	14	11	9	48	36	4	1	6	...	...	...	...	...	60	5	12	4	34	48	66	137	24
Chaguana	Dr. de Verteuil	2678	35	30	33	39	137	167	1	...	64	...	...	...	...	...	80	...	...	...	...	137	80	58	24
Carapichaima	Dr. Jenvey	434	5	6	6	13	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Conva	" Do.	2500	44	24	34	37	139	20	5	2	7	...	...	...	...	...	6	...	...	...	...	139	49	35	34
Savonetta	" Do.	4143	52	35	40	50	137	25	4	2	10	...	...	...	...	...	71	...	...	...	...	137	71	45	34
Point-à-Pierre	Dr. Chittenden	2756	26	28	34	52	140	...	...	...	92	4	...	...	...	...	200	11	...	...	...	14	260	185	34
Monterrat	Do. and Jenvey	3368	64	60	73	77	274	8	2	1	1	...	...	...	...	...	51	...	...	...	...	274	51	18	2
North Naparima	Dr. Johnstone	3805	46	35	44	53	178	29	1	1	24	12	5	48	...	...	101	13	63	31	24	178	101	56	34
Savanna Grande	do.	8974	107	95	123	113	438	76	8	...	68	9	2	144	4	...	329	27	24	4	5	438	329	75	44	
do.	" Do.	5006	52	50	47	59	208	33	6	...	2	...	...	...	...	...	148	37	19	4	3	34	208	148	24
San Fernando	Dr. Pitt and Fabien	8787	50	52	69	58	229	61	5	3	155	6	3	...	5	3	229	155	67	34
South Naparima	" Do.	1646	19	18	11	10	58	...	...	...	84	...	...	...	...	...	121	...	...	...	...	58	121	208	34
do.	Dr. Thompson	264	3	5	1	4	10	...	...	...	...	...	...	...	...	...	10	...	...	...	...	10	10	100	2
Oropouche	Do.	3802	22	21	26	31	100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
La Brea	Dr. Dumaine	175	10	13	9	9	41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41	...	...	...
Cedros	" Do.	396	8	4	5	7	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	...	...	...
Erin	" Do.	435	55	19	1061	136	22	83	122	30	592	46	10	2926	359	...	4912	2926	...	...	...	...	...	...	...

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

Boroughs or Wards.	Population Census 1871.												Total Births.	Total Vaccinations.	Percentage of Vaccina- tions to Births.	Average No. of Vaccines									
	1873.			1874.			1875.			1876.							1877.			1878.			1879.		
	Births.	Vaccinations.	Vesties.	Births.	Vaccinations.	Vesties.	Births.	Vaccinations.	Vesties.	Births.	Vaccinations.	Vesties.					Births.	Vaccinations.	Vesties.	Births.	Vaccinations.	Vesties.	Births.	Vaccinations.	Vesties.
Port-of-Spain	23561	896	596	31	836	617	31	876	902	31	908	571	3	864	651	21	942	270	31	6131	4034	65	31		
San Fernando	5006	187	151	61	197	239	21	232	...	...	214	...	...	193	257	3	208	148	3	1413	841	59	4
Shipping	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Arima	4290	246	141	31	179	201	31	260	169	31	240	224	21	282	199	3	248	226	31	1006	1236	74	13		
Cedros	4241	162	123	31	137	109	21	119	85	21	121	142	21	97	64	3	141	...	...	873	638	73	...
Coova	10253	364	99	31	293	201	21	369	634	31	387	692	31	386	479	2	146	386	31	2638	2617	96	...		
Caroni	4714	146	96	31	154	60	11	117	35	31	151	132	21	145	122	21	244	146	3	1112	832	61	...		
Diego Martin	7283	328	304	31	297	235	31	347	311	31	321	26	31	336	214	3	342	315	21	2277	1329	61	...		
Mayaro	1915	91	22	31	73	46	3	88	48	3	85	...	...	75	17	2	89	64	2	1088	383	48	...
Monterrat	3388	187	112	31	210	166	3	241	63	31	253	43	21	234	248	11	274	51	2	1627	634	42	...		
Moruga	396	14	...	...	...	...	...	31	...	...	19	...	...	...	...	...	...	...	...	153	...	...	...
North Naparima	12779	513	472	4	523	577	41	543	402	3	639	614	51	614	537	4	616	430	4	4053	3471	85	...		
South do.	10433	333	196	21	331	409	31	435	333	3	276	119	3	265	209	3	297	286	3	2175	1534	72	...		
St. Ann's	7549	297	218	31	265	247	31	271	140	31	271	154	31	284	85	21	290	93	31	1938	1190	61	...		
Tacarigua	12472	481	299	31	565	690	3	612	463	31	632	586	31	594	449	2	670	478	21	4071	3497	86	...		
Toco	1278	77	10	3	61	55	21	69	49	21	64	33	3	67	19	21	52	33	31	443	258	58	...		
	4322	2994	...	...	4204	3153	...	4713	3599	...	4575	3356	...	4470	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,
1879 AND 1880.

DISTRICTS.	1877.			1878.			1879.			1880.		
	Births.	Deaths.	Percentage.	Births.	Deaths.	Percentage.	Births.	Deaths.	Percentage.	Births.	Deaths.	Percentage.
Pert-of-Spain	908	110	12½	864	99	11½	942	112	11½	1125	132	11½
Laventille	61	5	8½	74	4	5½	77	6	7½	76	10	13
St. Ann's	33	...	...	31	...	...	28	...	...	30	4	13½
Santa Cruz	95	9	9½	102	5	5	107	7	6½	112	11	9
Aricagua	55	6	11	51	4	8	62	4	6½	62	6	9
Cimaronero	27	2	7½	26	1	3½	25	2	8	40	7	12
Diego Martin	93	11	11½	97	8	8½	107	4	3½	106	6	5
Carenage	62	7	11½	62	14	22½	51	5	10	59	3	5
Chaguaramas	34	...	...	44	2	4½	32	4	12½	37	2	5
Mucurapo	67	16	24	83	14	16½	88	19	21½	91	20	21
Maraval	65	3	4½	50	4	8	64	...	...	49	8	16
St. Joseph	131	6	4½	159	13	8½	168	8	4½	155	14	8
Tacarigua	375	22	5½	302	23	7½	381	34	9	417	30	7
Caura	62	2	3½	58	4	7	64	4	6½	58	2	3
Maracas	64	1	1½	75	2	2½	64	2	3½	69	3	4
Arima	170	8	4½	204	11	5½	188	18	9½	212	19	9
Guanapo	16	3	9	22	1	4½	36	1	2½	16	...	...
Blanchisseuse	26	2	7½	29	4	13	27	3	11	42	2	4
Tururo	19	...	...	27	1	3½	24	2	8½	28	1	3
Toco	38	1	2½	38	4	10½	25	...	...	34	3	9
Lower Caroni	51	7	13½	36	6	16½	48	4	8½	41	3	7
Chaguanas	79	11	14	92	16	17½	137	15	10½	133	31	23
Carapichaima	15	4	26½	27	2	7½	30	3	10	20	1	5
Savonetta	132	22	16½	134	16	12	157	12	7½	150	29	15
Conva	134	17	12½	125	12	9½	139	16	11½	141	14	9
Montserrat	253	25	9½	234	19	8	274	19	7	302	2	9
Upper Caroni	35	...	...	39	1	3½	59	...	...	62	4	6
Manzanilla	20	4	20	16	1	6½	23	2	8½	9	2	22
San Fernando	214	15	7	193	26	13½	208	27	13	221	34	15
Pointe-à-Pierre	121	15	12½	127	18	14	140	12	8½	140	15	9
North Naparima	175	26	15	175	35	20	178	11	6½	178	19	13
South Naparima	239	26	10½	227	22	9½	229	23	10	254	24	9
Savana Grande	464	50	10½	393	43	10½	438	41	9½	534	72	13
Cedros	76	8	10½	96	10	10	100	8	8	105	9	8
Erin	40	1	2½	22	...	...	41	2	4½	35	6	17
La Brea	5	2	40	16	3	18½	10	...	...	7	...	...
Oropouche	37	8	21½	38	2	5½	58	11	19	60	14	23
Moruga	19	1	5½	23	1	4½	24	5	20½	25	2	8
Nariva	12	1	8½	6	1	16½	8	1	12½	13	3	23
Mayaro	53	10	18½	53	7	13½	58	7	12	35	9	16
	4575	467	10½	4470	459	10½	4912	453	9½	5346	604	11

VACCINATION.

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

LEGISLATIVE COUNCIL.

1st October, 1881.