8. Other River Intake Sources

Productions from river intake sources have been measured for a certain period of time by WASA. The production records are shown in Tables 8.1 to 8.10. As the climate pattern is clearly divided into two seasons, productions from the river sources which have no impoundment are largely affected by the rainfall pattern. Productions tend to fall during the several months in the dry seasons.

Fig. 8.1 shows estimated production during the drought defined as 5 year recurrence interval (20 % probability) of the waterworks for which sufficient production records were available.

Table 8.1 Aripo Waterworks Production Record (in monthly average production m3/d)

Listed Production : 15,900 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1979										Inception -->	1,836	11,844	
1980	11,658	10,581	10,235	10,508	9,690	10,385	9,245	8,685	9,726	8,908	9,804	9,708	9,928
1981	8,372	6,031	6,258	9,708	9,099	10,013	9,594	9,713	9,313	10,331	7,817	10,454	8,892
1982	8,172	9,566	7,603	7,369	7,517	8,830	9,479	8,329	10,391	9,754	9,197	8,590	8,733
1983	9,173	8,138	5,470	7,623	8,974	9,142	4,649	6,973	8,367	9,508	7,945	10,377	8,028
1984	10,292	10,139	10,266	8,304	10,005	10,485	8,560	9,970	9,588	9,543	6,906	9,946	9,500
1985	10,037	10,349	9,236	10,579	9,020	10,130	8,455	8,593	10,133	8,852	10,526	9,353	9,605
1986	10,634	9,881	9,031	9,805	9,354	9,370	10,145	9,987	9,451	8,084	9,308	9,731	9,565
1987	10,164	11,489	9,231	8,476	7,721	7,649	8,777	8,777	10,123	9,343	9,976	9,980	9,309
1988	9,220	10,496	8,970	7,718	4,725	7,440	8,945	8,258	8,571	8,178	9,069	8,788	8,365
1989	10,098	9,917	9,590	10,217	7,813	8,014	7,924	7,924	8,988	9,491			
AVERAGE	9,782	9,659	8,589	9,031	8,392	9,146	8,577	8,721	8,605	9,199	8,238	9,877	9,103
MINIMUM	8,172	6,031	5,470	7,369	4,725	7,440	4,649	6,973	8,367	8,084	1,836	8,590	
MAXIMUM	11,658	11,489	10,266	10,579	10,005	10,485	10,145	9,987	10,391	10,331	10,526	11,844	

AVERAGE OF JUNE, JULY, AUG. SEP. OCT. NOV. DEC. 10,530
AVERAGE OF JAN. FEB. MAR. APR. MAY 10,799
AVERAGE OF TWO LOWEST PRODUCTION MONTHS IN DRY SEASONS 8,059

Table 8.2 Acono Waterworks Production Record (in monthly average production m3/d)

Listed Production : 2,100 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1979												1,041	
1980	2,127	1,450	1,845	1,554	1,164	991	1,486	1,463	1,595	1,400	1,450	2,127	1,554
1981	2,182	2,004	1,513	1,373	1,873	2,213	2,145	1,873	2,254	1,754	2,113	2,041	1,945
1982	2,249	2,250	2,075	2,080	1,946	1,939	2,312	1,262	2,079	1,833	2,113	2,068	2,017
1983	2,274	2,148	1,938	1,536	1,486	1,362	2,141	2,107	2,084	2,280	2,342	2,174	1,989
1984	2,207	2,277	2,077	1,158	886	1,033	1,296	2,014	2,288	1,841	1,585	2,129	1,733
1985	2,323	3,055	2,016	1,865	1,540	2,320	1,660	1,753	2,323	1,921	2,183	2,136	2,091
1986	2,230	2,275	2,350	2,428	1,793	2,124	2,177	2,263	2,314	2,160	2,340	2,157	2,218
1987	2,226	2,503	2,018	1,610	1,201	1,561	1,968	1,677	2,409	2,222	2,306	2,226	1,994
1988	2,350	2,095	1,442	1,065	748	795	1,199	2,218	2,095	2,019	2,262	2,100	1,699
1989	2,279	2,145	2,077	2,277	2,143	1,135	2,026	2,026	2,212	2,328			2,065
AVERAGE '81 - '89	2,258	2,306	1,945	1,710	1,513	1,609	1,880	1,910	2,229	2,040	2,156	2,129	1,974

AVERAGE OF JUNE. JULY. AUG. SEP. OCT. NOV. DEC. 1,993 m3/d
AVERAGE OF JAN. FEB. MAR. APR. MAY 1,946 m3/d
AVERAGE OF TWO LOWEST PRODUCTION MONTHS 1,543 m3/d

DRY SEASON	MIN	748 m3/d
	MAX	3,055 m3/d
	AVG	1,946 m3/d
RAINY SEASON	MIN	795 m3/d
	MAX	2,409 m3/d
	AVG	1,946 m3/d

Table 8.3 Caura Waterworks Production Record (in monthly average production m3/d)

Listed Production : 11,360 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1979					668	4,554	3,959	2,854	2,891	2,854	2,950	2,932	2,958
1980	6,581	8,676	8,113	9,735	3,663	6,499	9,495	9,649	11,363	9,676	5,599	10,749	8,317
1981	10,849	10,835	11,122	9,781	9,872	9,994	9,554	9,245	8,913	9,740	7,558	9,863	9,777
1982	10,442	10,010	4,554	10,139	10,937	10,859	11,124	10,112	9,829	9,901	10,122	10,181	9,851
1983	9,834	10,212	9,900	9,907	9,290	9,948	10,081	9,870	9,689	9,966	10,233	10,045	9,915
1984	10,147	8,856	8,832	9,934	5,106	9,681	9,268	9,891	10,004	9,658	9,905	9,799	9,257
1985	9,981	10,907	9,961	10,055	9,820	11,425	9,987	10,113	10,702	10,422	10,422	9,010	10,234
1986	11,236	11,303	9,215	9,182	10,385	10,588	9,942	10,829	11,400	10,573	11,237	10,087	10,498
1987	10,328	11,901	9,878	10,313	10,747	11,393	11,028	11,294	9,498	10,547	10,036	10,040	10,584
1988	11,215	11,066	10,365	10,610	8,584	9,039	10,404	9,959	10,602	9,099	8,083	10,155	9,932
1989	10,545	10,598	9,693	10,702	9,330	9,159	9,483	9,483	6,031	10,871			9,590
AVERAGE '81-89	10,509	10,632	9,280	10,069	9,341	10,232	10,097	10,088	9,630	10,086	9,700	9,897	9,963

DRY SEASON

MIN	4,554
MAX	11,901
AVG	9,966

RAINY SEASON

MIN	6,031
MAX	11,425
AVG	9,967

AVERAGE OF TWO LOWEST PRODUCTION MONTHS OF EACH YEAR IN DRY SEASON 9,094 m3/d

Table 8.4 Guanapo Waterworks Production Record (in monthly average production m3/d)

Listed Production : 11,360 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1982													
1983		7,711	7,226	7,903	7,238	6,291	6,717	7,653	7,892	7,140	7,799	7,682	7,387
1984	7,365	7,628	8,503	8,369	8,330	7,689	5,412	2,666					7,614
1985			1,135	6,478	6,487	8,120	7,292	3,883	5,697	4,564			6,326
1986			891	7,384									7,384
1987		6,444	4,772	6,759	8,745	6,623	8,777	6,967	4,685	5,219	5,297	5,200	6,317
1988	5,787	5,878	5,083	6,145	4,889	6,679	7,095	6,520	5,610	4,589	5,557	5,485	5,776
1989	7,555	8,803	7,960	8,765	8,665	8,219	8,471	8,471	9,138	10,201			8,625
AVERAGE	6,902	7,293	6,709	7,400	7,392	7,270	7,294	6,699	6,604	6,670	6,218	6,122	6,881

[ ] : These figures are not included for average.

Table 8.5 Loengo/Naranjo Waterworks Production Record (in monthly average production m3/d)

Listed Production : 3,180 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1980			START MAY 8		1,377	1,968	1,509	1,627	2,236	2,109	2,018	1,950	
1981	2,877	3,245	2,550	2,477	3,072	3,736	3,159	2,409	3,277	3,141	3,204	2,582	2,977
1982	2,104	2,792	3,050	3,037	3,360	2,369	1,250	1,255	1,192	2,882	3,451	3,371	2,509
1983	3,726	3,726	2,524	1,755	1,089	1,939	1,930	3,170	2,948	3,315	3,395	3,296	2,734
1984	3,264	3,588	3,239	2,197	561	1,937	2,665	3,138	3,575	3,598	3,271	3,880	2,909
1985	4,332	5,014	3,405	3,006	3,446	3,122	2,493	2,867	2,781	2,575	3,664	3,516	3,352
1986	4,136	4,290	3,817	3,945	2,835	2,629	3,435	3,414	4,133	3,491	3,181	3,765	3,589
1987	3,639	4,288	2,798	2,332	1,866	2,005	2,973	2,755	3,886	3,615	3,688	3,548	3,116
1988	4,031	3,785	2,303	1,671	984	1,207	1,913	2,940	2,192	2,564	3,311	2,954	2,488
1989	3,439	3,333	1,082	3,697	3,601	3,244	3,195	3,195	3,206	3,718			3,171
AVERAGE	3,505	3,785	2,752	2,680	2,313	2,416	2,452	2,677	2,943	3,101	3,243	3,207	2,923

DRY SEASON
MIN 561 m3/d
MAX 5,014 m3/d
AVG 3,007 m3/d

RAINY SEASON
MIN 1,192 m3/d
MAX 4,133 m3/d
AVG 2,959 m3/d

AVERAGE OF LOWEST TWO PRODUCTION MONTHS OF EACH YEAR IN DRY SEASONS 2,214 m3/d

Table 8.6 Toco Waterworks Production Record (in monthly average production m3/d)

Listed Production : 4,546 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1979													
1980			E S T I M A T E D										
1981													
1982	1,017	1,591	1,382	1,176	1,149	867	1,043	486	863	1,115	1,137	1,216	1,087
1983	740	1,061	1,268	1,476	698	1,290	1,274	1,219	1,001	1,121	1,300	1,427	1,156
1984	1,360	1,598	1,631	1,650	1,650	1,506	1,136	1,325	1,187	1,187	1,313	1,575	1,427
1985	1,600	1,600	1,435	1,548	1,529	1,337	1,346	1,224	1,207	1,161	1,161	1,124	1,356
1986	2,794	2,441	891	1,674	2,311	2,380	2,461	2,754	2,057	2,312	2,478	2,456	2,251
1987	2,437	2,694	2,168	2,214	2,259	2,347	2,181	2,301	2,594	2,293	2,489	2,489	2,372
1988	2,489	2,040	2,149	2,100	2,100	1,832	1,890	1,890	1,890	1,890	1,890	1,890	2,004
1989	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890			1,890
AVERAGE of 1986, 1987	2,616	2,568	1,530	1,944	2,285	2,364	2,321	2,528	2,326	2,303	2,484	2,473	2,311

DRY SEASON
- MIN 698 m3/d
- MAX 2,794 m3/d
- AVG 2,111 m3/d

RAINY SEASON
- MIN 486 m3/d
- MAX 2,754 m3/d
- AVG 2,162 m3/d

AVERAGE OF LOWEST TWO MONTHS' PRODUCTION OF EACH YEAR IN DRY SEASONS 1,525 m3/d

Table 8.7 Richmond Waterworks Production Record (in monthly average production m3/d)

Listed Production : 2,467 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1976	1,377	1,354	1,364	1,441	1,459	1,450	1,532	1,500	1,468	1,423	1,432	1,477	1,440
1977	1,491	1,364	1,227	1,309	1,204	1,259	1,259	1,232	1,341	1,259	1,127	1,127	1,267
1978	1,127	1,127	1,127	1,127	1,214	1,164	1,286	1,100	1,204	1,236	1,282	1,177	1,181
1979	1,195	1,286	1,254	1,114	1,204	1,241	1,259	1,286	1,064	1,109	1,100	1,023	1,178
1980	1,132	1,268	1,318	1,432	1,273	1,218	1,218	1,082	1,164	1,186	1,204	1,309	1,234
1981	1,518	1,577	1,532	1,463	1,450	1,441	1,395	1,450	1,541	1,500	1,509	1,450	1,485
1982	1,328	1,316	1,337	1,380	1,370	1,232	1,346	1,439	1,305	1,188	1,313	1,868	1,369
1983	2,026	2,215	2,197	2,194	2,296	2,200	2,344	2,178	2,075	2,165	2,115	2,142	2,179
1984	2,515	2,493	2,581	2,168	2,252	2,451	2,317	2,286	2,346	2,001	1,624	1,916	2,246
1985	1,979	1,945	1,827	2,309	2,251	2,260	2,032	2,246	2,226	2,395	2,345	2,371	2,182
1986	2,556	2,432	2,525	1,945	2,237	2,076	2,202	2,115	1,945	1,537	1,705	1,675	2,079
1987	1,791	1,825	1,865		1,619	1,712	1,696	1,715	1,806	1,278	608	608	1,502
1988	1,332	1,851	1,673	2,013	2,151	1,770	1,672	1,776	1,475	1,617	1,764	1,892	1,749
1989	2,142	2,149	2,094	2,112	975	2,024	1,871	1,433	1,606	1,597			1,800
AVERAGE '76-89	1,679	1,729	1,709	1,693	1,640	1,678	1,674	1,631	1,612	1,535	1,471	1,541	1,635

Table 8.8 Green Hill Waterworks Production Record (in monthly average production m3/d)

Listed Production : 3,360 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1983													
1984					1,744								
1985			2,810	2,491	2,921	2,593	1,246	2,960	2,363	1,755	2,090	2,089	2,332
1986	2,989	2,829	2,707	2,625	2,033	1,728	2,106	1,303	2,198	2,019	2,146	2,425	2,259
1987	2,203	1,569	1,080		810	799	1,172	1,294	1,020	1,855	1,257	2,141	1,382
1988	2,357	1,973	1,973	1,134	1,035	1,097	1,238	995	420	556	581	909	1,189
1989	2,711	3,052	2,091	1,970	1,474	1,879	736	1,168	659	793			1,653
AVERAGE	2,565	2,356	2,132	2,055	1,670	1,619	1,300	1,544	1,332	1,396	1,519	1,891	1,781

Table 8.9 Courland Waterworks Production Record (in monthly average production m3/d)

Listed Production : 7,368 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1976	3,063	3,045	3,400	3,459	3,572	3,191	3,327	3,404	3,427	3,681	3,204	4,045	3,402
1977	4,045	4,140	4,390	3,904	4,081	3,895	3,959	4,077	4,054	3,722	4,481	4,418	4,097
1978	4,018	4,163	4,177	3,618	3,586	3,822	3,295	4,109	3,941	3,518	3,559	3,663	3,789
1979	4,068	4,345	4,209	4,236	3,927	3,509	3,309	3,295	2,732	3,409	3,154	3,045	3,603
1980	3,781	4,081	4,013	3,777	3,277	3,318	3,277	3,468	3,341	3,063	3,122	3,372	3,491
1981	4,490	4,736	4,490	4,545	3,431	3,186	3,327	3,259	3,218	3,686	3,531	3,195	3,758
1982	3,670	3,482	3,703	3,907	3,479	3,078	3,023	2,946	2,899	3,050	2,791	3,240	3,272
1983	3,575	3,628	3,520	3,391	3,055	3,124	2,689	2,730	2,655	2,418	2,246	3,343	3,031
1984	4,623	5,582	5,452	5,364	5,231	5,145	4,358	4,105	3,842	3,430	3,248	3,726	4,509
1985	4,449	5,076	5,040	5,701	5,695	5,550	4,330	4,784	4,723	4,512	4,184	4,489	4,878
1986	5,799	6,527	6,527	5,579	6,422	5,522	6,151	5,909	5,253	5,831	5,748	5,362	5,886
1987	6,495	6,738	6,473		5,446	6,168	6,455	6,358	5,630	5,845	5,660	6,691	6,178
1988	7,073	7,597	7,245	6,740	5,842	5,699	6,090	5,940	5,305	5,219	5,451	6,036	6,186
1989	6,150	6,736	6,751	6,931	6,913	6,647	6,015	6,035	5,642	6,237			6,406
AVERAGE '86-89	6,379	6,900	6,749	6,417	6,156	6,009	6,178	6,061	5,458	5,783	5,620	6,030	6,164

DRY SEASON

MIN	5,446
MAX	7,597
AVG	6,525

RAINY SEASON

MIN	5,219
MAX	6,691
AVG	5,881

Table 8.10 Craig Hall Waterworks Production Record (in monthly average production m3/d)

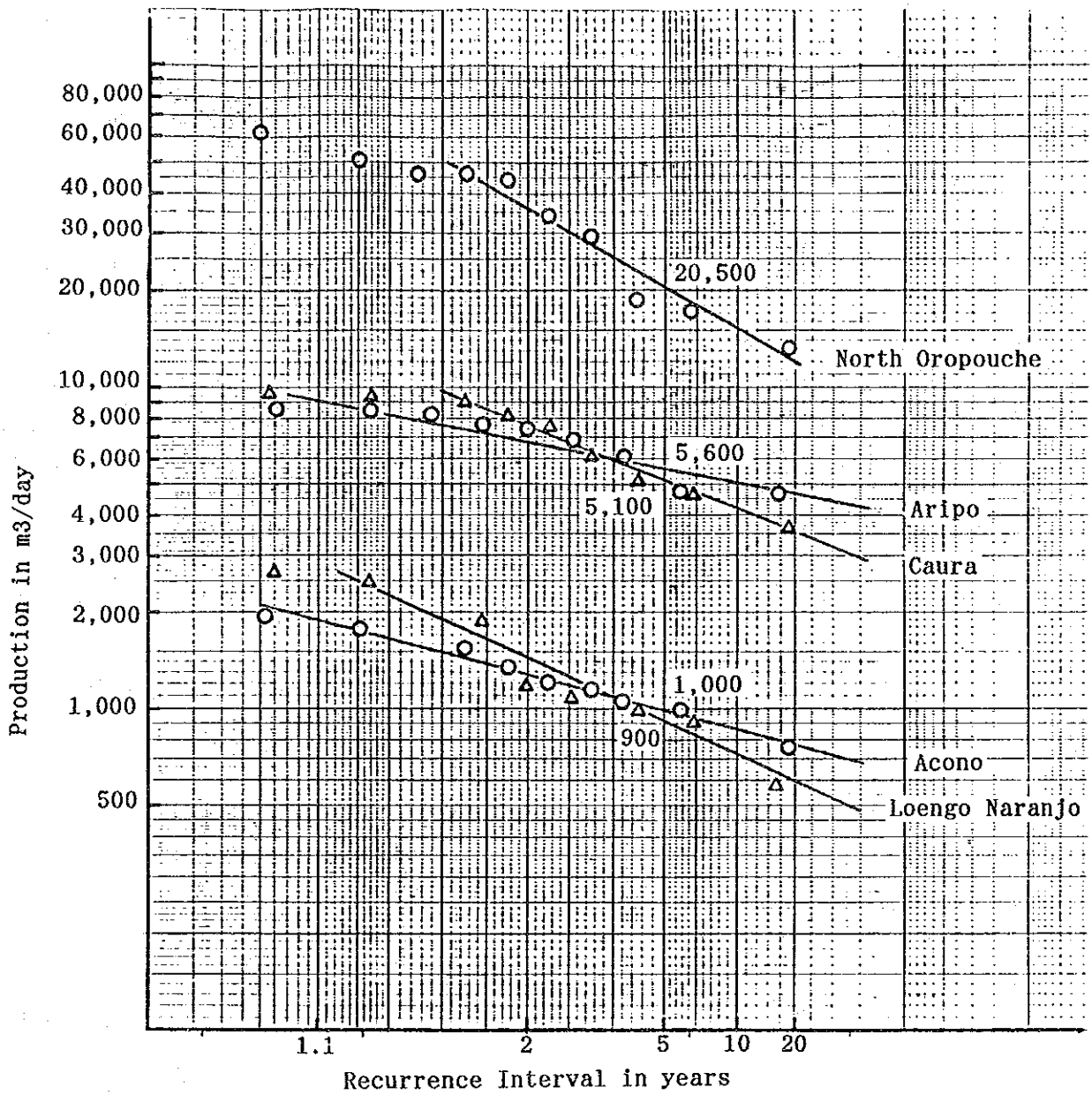
Listed Production : 2,461 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1976	927	786	795	895	859	268	650	709	577	386	395	200	621
1977	800	786	986	959	973	1,014	986	941	764	904	854	954	910
1978	900	86	823	754	700	677	341	0	300	764	568	618	544
1979	764	745	686	727	650	709	695	695	645	668	673	864	710
1980	727	877	873	1,095	1,095	754	750	450	704	714	791	904	811
1981	1,027	1,082	1,109	1,059	995	1,018	777	818	795	986	1,027	918	968
1982	1,043	1,209	1,164	1,244	1,242	963	1,007	950	874	821	674	822	1,001
1983	936	1,026	1,017	1,031	1,016	821	666	819	839	871	794	761	883
1984	957	1,227	1,460	1,456	1,285	1,404	903	820	1,361	779	588	1,102	1,112
1985	1,427	1,896	1,520	1,420	1,454	1,392	1,045	1,007	881	974	921	1,248	1,265
1986	714	1,486	1,515	1,886	1,450	1,135	1,380	846	1,047	836	827	1,278	1,200
1987	1,215	1,061	1,080		1,010	992	1,002	1,404	1,172	1,387	241	1,235	1,073
1988	1,951	2,253	2,253	1,257	1,245	866	1,579	1,116	1,046	869	905	1,065	1,367
1989	1,470	1,382	1,747	1,157	1,735	1,879	1,296	1,614	759	1,240			1,428
AVE. 84-89	1,289	1,551	1,596	1,435	1,363	1,278	1,201	1,135	1,044	1,014	696	1,186	1,241

DRY SEASON
MIN 714 m3/d
MAX 2,253 m3/d
AVG 1,447 m3/d

RAINY SEASON
MIN 241 m3/d
MAX 1,879 m3/d
AVG 1,086 m3/d

AVERAGE OF TWO LOWEST PRODUCTION MONTHS OF EACH YEAR IN DRY SEASONS 1,192 m3/d



These curves were drawn under the assumption that the productions in dry seasons are correlated with the river discharges.

Fig. 8.1 Estimate Production during Drought (5 year recurrence interval)

9. GROUNDWATER SOURCES

Substantial number of wells are currently un-metered due to absence of flow meters. Several representative well fields are metered, and their production records are tabulated in Tables 9.1 to 9.4, indicating that the productions from groundwater sources are relatively constant through a year.

Water levels of the aquifers are being observed by WRA periodically. Figs. 9.1 to 9.10 reproduce the past water levels of major well fields prepared by WRA. From which, general upward trends are observed for most of the well fields for the time of 10 year period, suggesting that the current withdrawal rates are within the sustainable levels. Exceptions are Tacarigua and Las Lomas well fields which show relatively downward trends in recent years.

Table 9.1 Las Lomas Waterworks Production Record (in monthly average production m3/d)

Listed Production : 11,360 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1984							6,810	7,081	12,766	10,645	10,177	11,929	9,901
1985	12,097	10,099	11,082	11,223	9,545	10,928	9,341	11,465	11,663	11,530	12,284	10,909	11,014
1986	13,185	12,694	12,822	12,822	14,264	13,906	12,192	11,736	13,012	12,762	12,769	11,378	12,795
1987	12,296	13,078	11,591	12,131	11,185	10,239	6,504	13,719	12,370	10,691	11,852	11,850	11,459
1988	10,763	10,941	10,361	11,028	10,528	9,458	11,048	10,984	10,663	10,096	8,475	9,620	10,330
1989	8,575	10,195	10,364	11,460	9,504	9,649	9,215	9,215	6,826	10,591			9,559
AVERAGE	11,383	11,401	11,244	11,733	11,005	10,836	9,660	10,700	11,217	11,053	11,111	11,137	10,843

Table 9.2 El Socorro Waterworks Production Record (in monthly average production m3/d)

Listed Production : 27,270 m3/d

	YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
	1981													
	1982	16,345	22,754	22,174	20,682	20,882	17,310	11,321	13,632	8,925	8,469	10,684	12,157	15,445
	1983	13,039	13,237	7,672	11,443	14,446	16,371	14,329	14,493	13,570	16,547	18,377	20,085	14,467
	1984	14,615	21,993	24,021	19,399	17,245	16,803	16,821	17,444	18,078	16,737	14,993	12,450	17,550
	1985	23,125	13,806	19,348	14,258	20,664	19,212	14,295	15,273	14,418	15,396	16,439	15,396	16,803
ESTIMATE	1986	12,435	17,817	23,750	23,615	23,272	25,455	20,984	19,090	21,328	21,762	25,878	22,315	21,475
ESTIMATE	1987	21,671	26,379	21,683	22,498	23,312	25,950	22,166	22,166	26,013	23,186	23,682	24,466	23,598
ESTIMATE	1988	20,731	21,427	22,296	22,071	22,546	26,694	19,765	23,957	25,021	22,455	24,604	26,188	23,146
ESTIMATE	1989	26,189	28,100	24,957	24,907	22,668	26,337	26,485	27,556	26,294	22,839			25,633
AVERAGE '87 - 89		22,864	25,302	22,979	23,159	22,842	26,327	22,805	24,560	25,776	22,827	24,143	25,327	24,126

Table 9.3 Freeport Waterworks Production Record (in monthly average production m3/d)

Listed Production : 11,360 m3/d

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1976	9,154	8,858	9,731	9,813	8,785	9,731	8,954	8,976	8,945	8,422	6,463	6,899	8,728
1977	5,286	4,936	6,354	8,017	6,740	6,413	6,958	6,449	6,413	6,463	4,922	6,795	6,312
1978	5,872	7,708	7,667	7,658	7,336	7,899	7,322	7,540	6,177	7,649	5,931	5,672	7,036
1979	7,458	5,727	7,876	8,081	8,072	7,604	8,363	9,349	9,849	9,095	9,272	7,704	8,204
1980	5,354	8,022	8,645	8,699	7,172	7,158	7,704	6,549	6,658	5,309	4,836	5,145	6,771
1981	4,013	4,727	5,490	7,531	3,604	3,845	3,822	3,554	5,049	6,213	5,522	5,890	4,939
1982	5,678	4,710	4,568	2,980	4,438	9,581	9,813	9,488	9,157	8,552	9,029	7,971	7,164
1983	9,703	6,438	8,441	2,769	8,650	6,992	9,174	7,617	8,339	7,081	7,577	8,826	7,634
1984	8,753	9,166	10,870	11,129	11,798	2,480	12,158	7,157	1,797	4,481	2,456	2,088	7,028
1985	6,250	2,107	1,973	2,341	2,245	2,167	3,985	4,242	3,934	3,432	8,745	8,507	4,161
1986	8,832	9,535	3,458	3,458	3,613	3,897	3,557	3,484	3,870	3,816	4,053	3,500	4,589
1987	3,624	3,942	3,389	3,574	3,758	4,245	3,858	3,768	3,801	3,655	3,650	4,963	3,852
1988	5,422	5,939	5,145	5,230	4,921	6,028	4,555	4,298	8,420	4,265	4,396	4,215	5,236
1989	4,030	4,005	3,489	4,000	3,725	3,885	3,590	3,460	9,127	5,010			4,432
AVERAGE	6,388	6,130	6,221	6,091	6,061	5,852	6,701	6,138	6,538	5,960	5,912	6,013	6,167

Table 9.4 Chatham Waterworks Production Record (in monthly average production m3/d)

Listed Production : 11,360 M3/D

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	AVERAGE
1980													
1981													
1982													
1983													
1984					760	2,067	1,891	2,295	1,890	2,047	2,003	2,270	2,066
1985	2,932	3,858	3,579	4,062	4,324	4,723	4,470	4,875	5,093	4,465	4,798	5,046	4,352
1986	5,244	5,559	4,375	5,026	5,208	5,363	5,258	4,836	3,878	4,182	5,502	4,919	4,946
1987	5,229	5,463	3,762		4,391	4,289	3,816	4,281	5,654	4,960	5,559	5,235	4,785
1988	5,997	5,965	5,800	5,595	3,751	3,756	4,240	3,992	3,913	3,790	4,602	4,576	4,665
1989	4,761	4,987	3,927	4,383	4,282	4,252	3,200	4,464	4,809	4,809			4,387
AVERAGE	4,833	5,166	4,289	4,767	4,391	4,075	3,813	4,124	4,206	4,042	4,493	4,409	4,384

DRY SEASON

MIN	3,751
MAX	5,997
AVG	4,932

RAINY SEASON

MIN	3,200
MAX	5,654
AVG	4,544

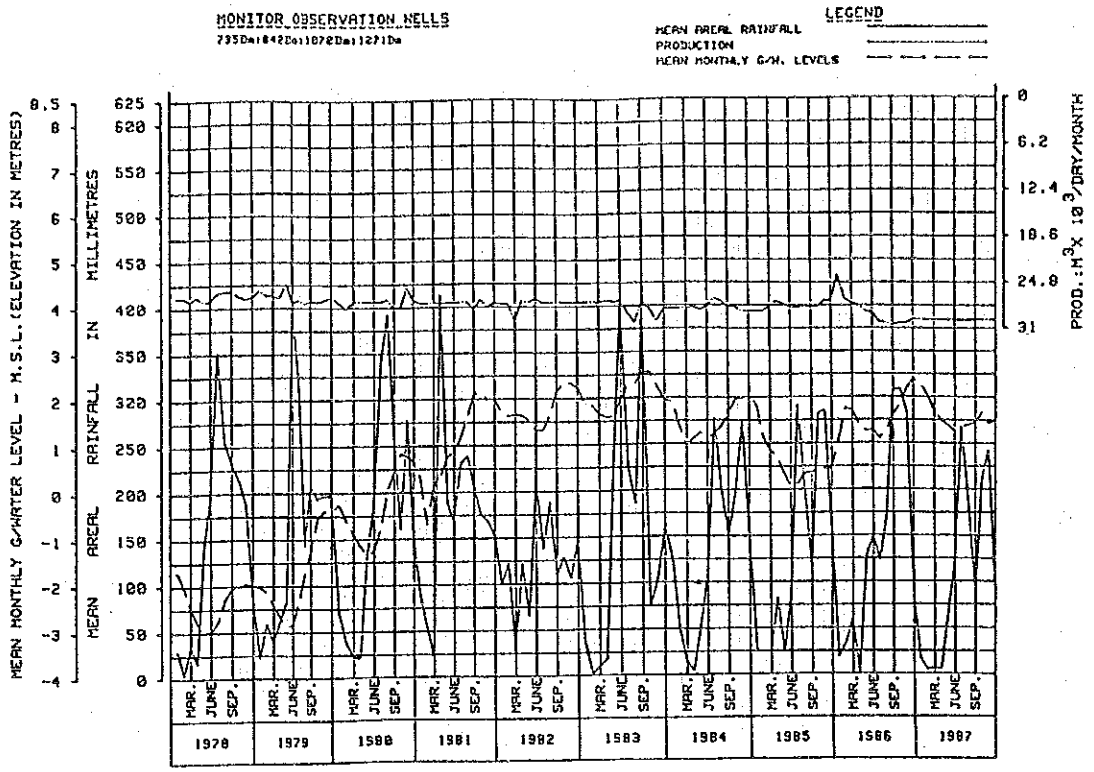


Fig. 9.1 Four Roads Well Field Groundwater Level Fluctuation 1978 - 1987
(North West Peninsula Gravels)

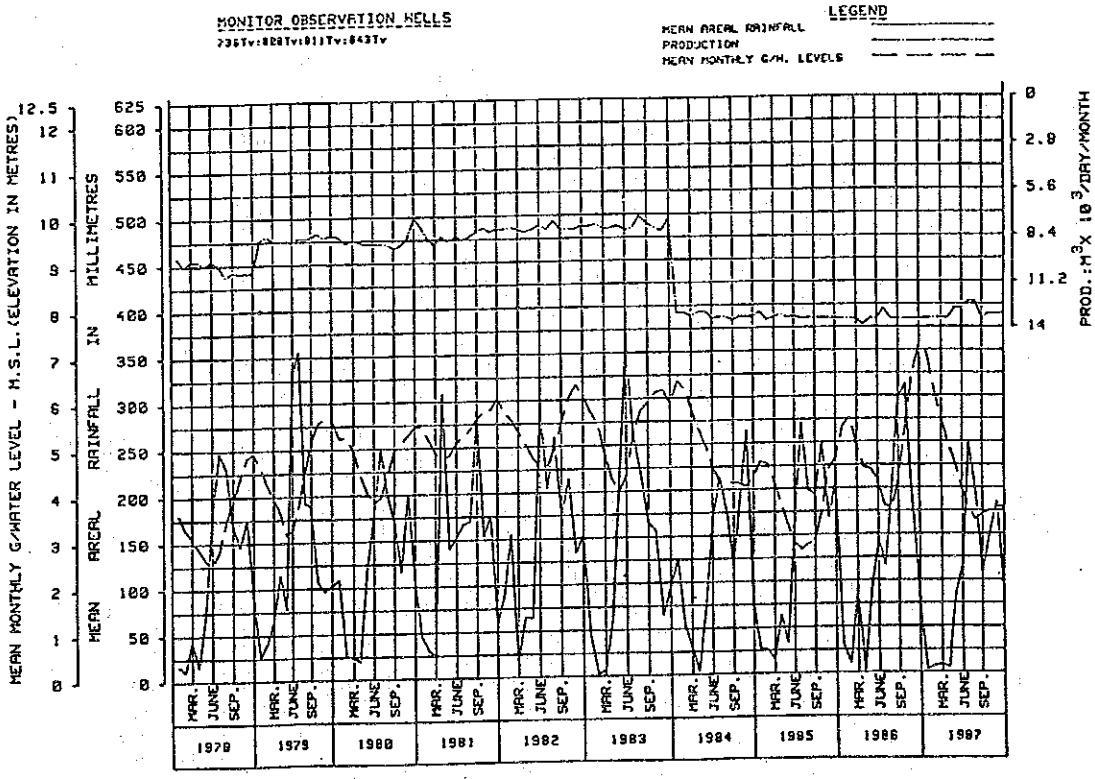


Fig. 9.2 Tucker Valley Well Field Groundwater Level Fluctuation 1978 - 1987
(North West Peninsula Gravels)

Reproduced from GROUNDWATER REPORT, 1987 by WRA

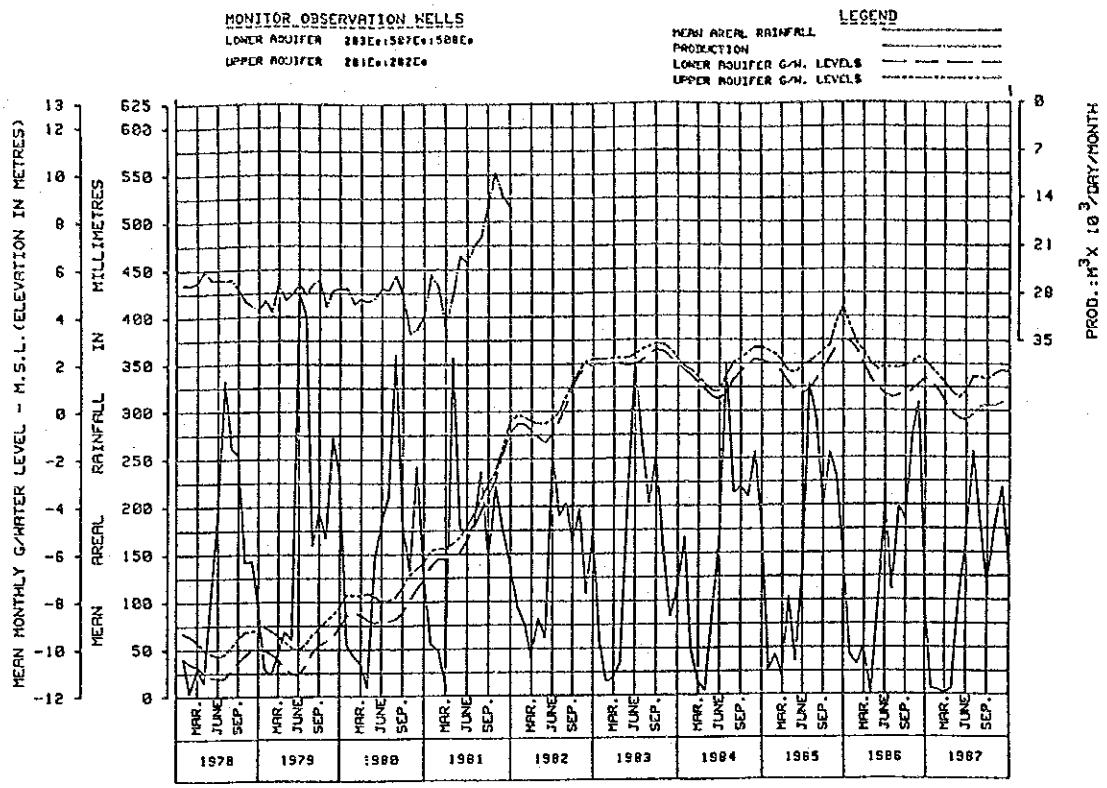


Fig. 9.3 El Socorro Well Field Groundwater Level Fluctuation 1978 - 1987 (Northern Gravels)

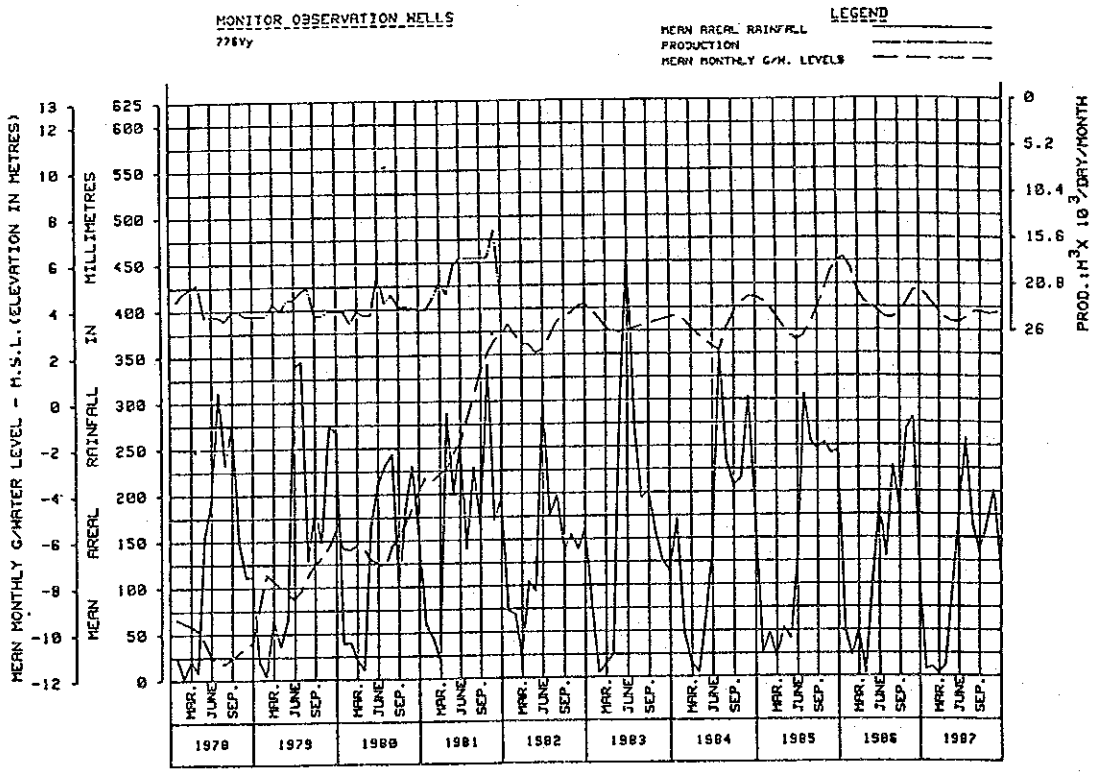


Fig. 9.4 Valsayn Well Field Groundwater Level Fluctuation 1978 - 1987 (Northern Gravels)

Reproduced from GROUNDWATER REPORT, 1987 by WRA

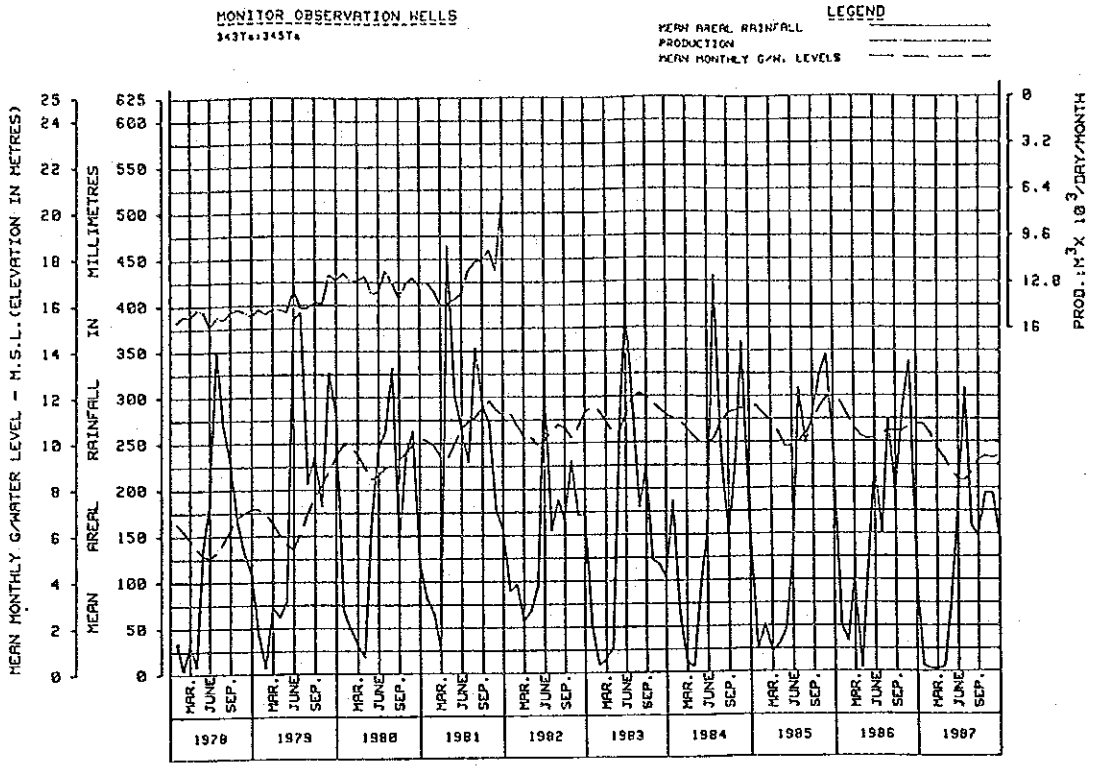


Fig. 9.5 Tacarigua Well Field Groundwater Level Fluctuation 1978 - 1987
(Northern Gravels)

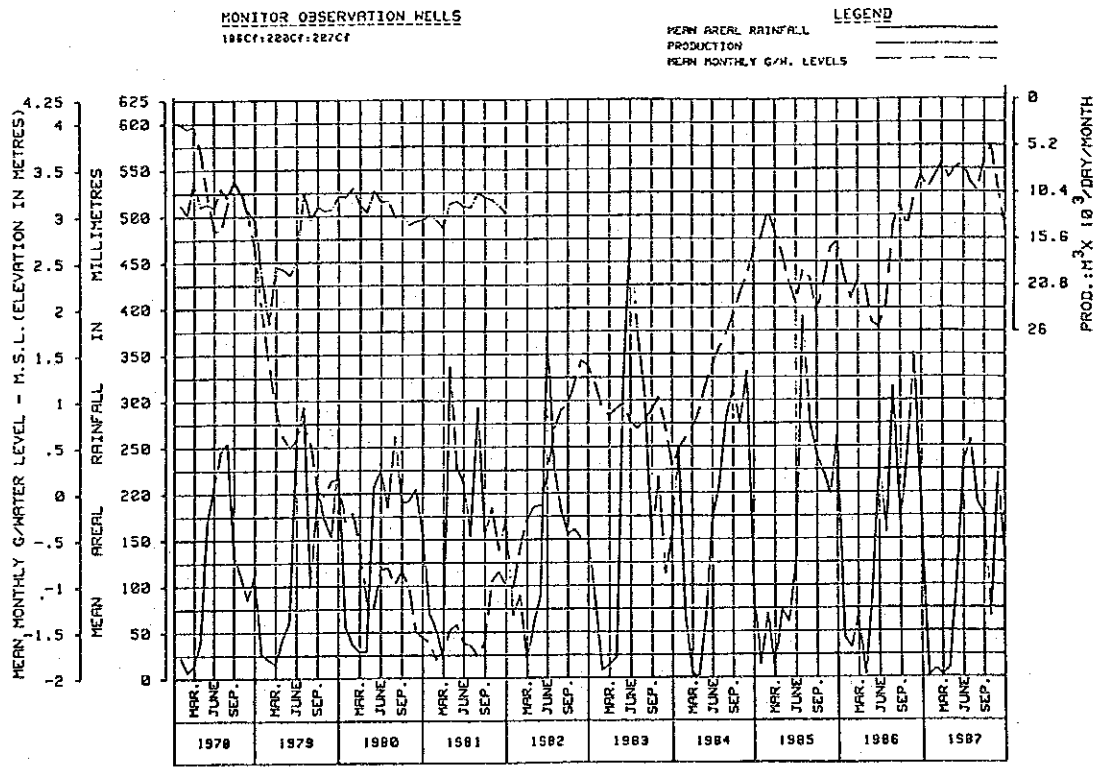


Fig. 9.6 Carlsen Field Well Field Groundwater Level Fluctuation 1978 - 1987
(Central Sands)

Reproduced from GROUNDWATER REPORT, 1987 by WRA

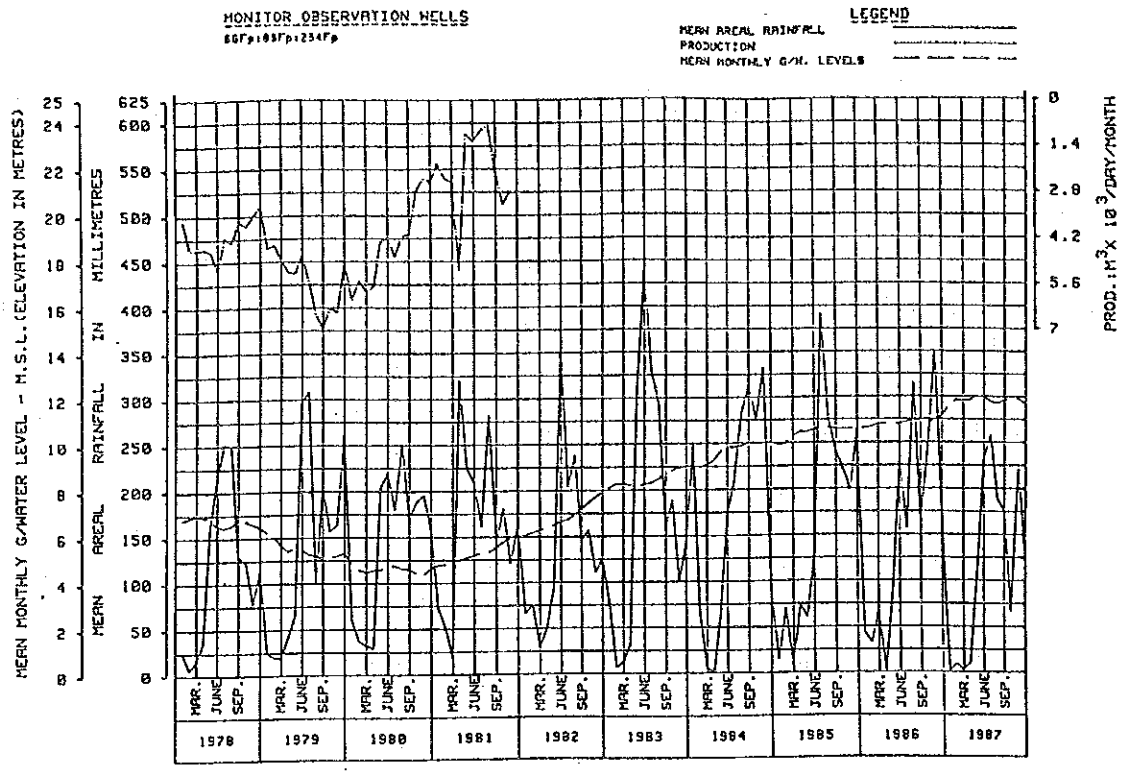


Fig. 9.7 Freeport Well Field Groundwater Level Fluctuation 1978 - 1987
(Central Sands)

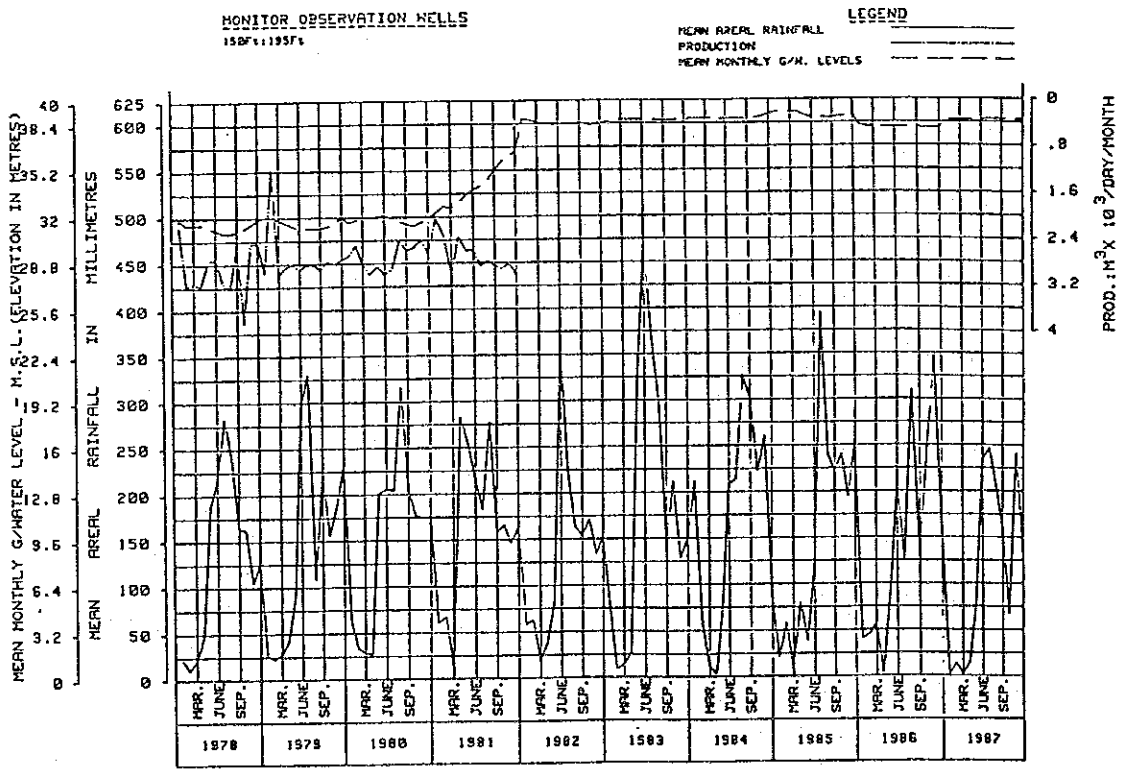


Fig. 9.8 Freeport Todd's Well Field Groundwater Level Fluctuation 1978 - 1987
(Central Sands)

Reproduced from GROUNDWATER REPORT, 1987 by WRA

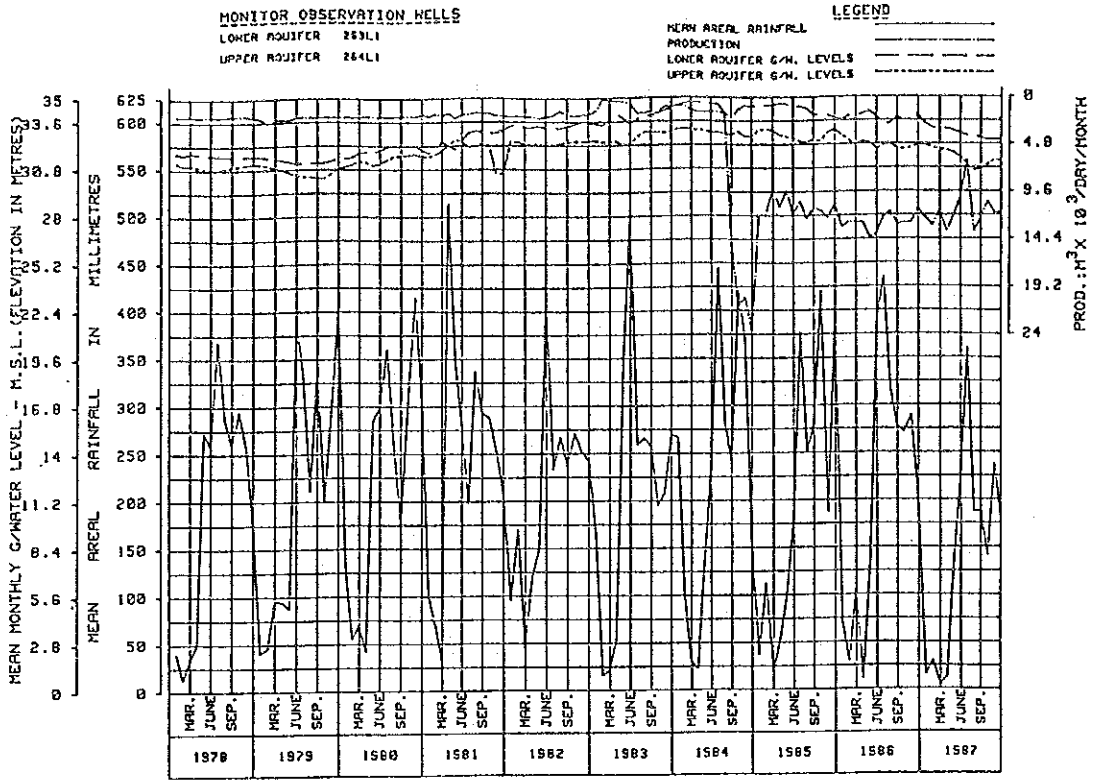


Fig. 9.9 Las Lomas Well Field Groundwater Level Fluctuation (1) 1978 - 1987 (Central Sands)

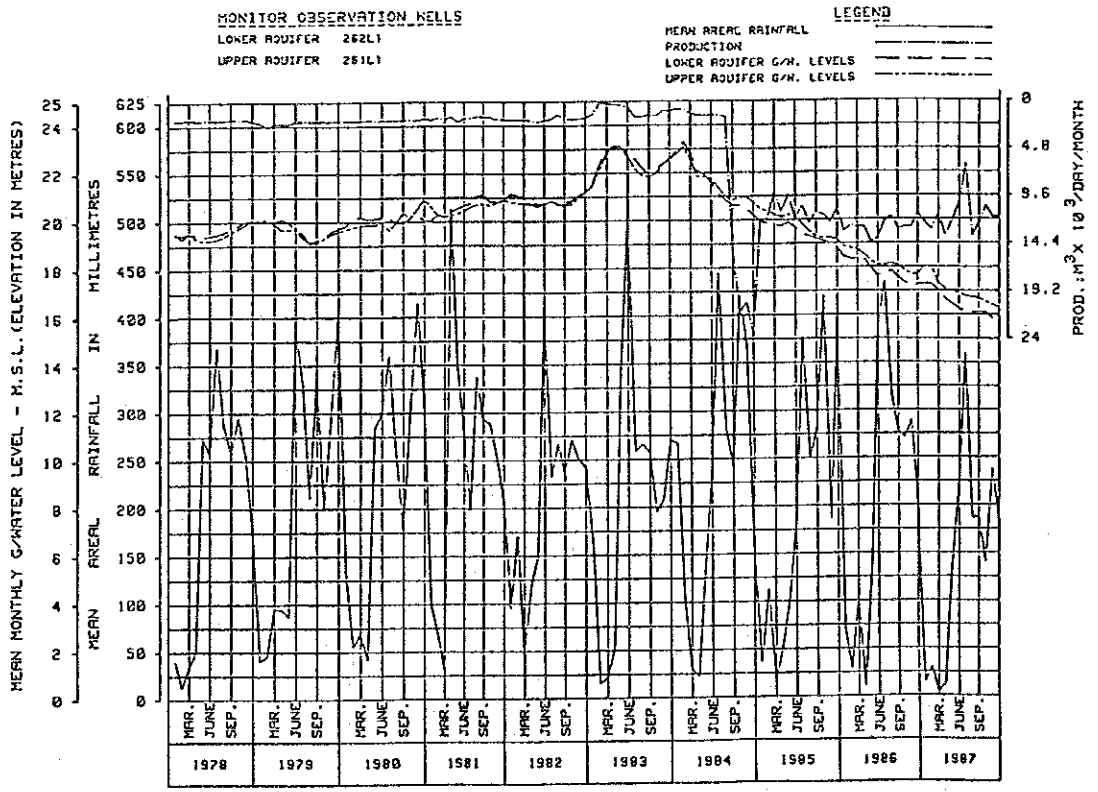


Fig. 9.10 Las Lomas Well Field Groundwater Level Fluctuation (2) 1978 - 1987 (Central Sands)

Reproduced from GROUNDWATER REPORT, 1987 by WRA

Table B-10 ESTIMATED DEPENDABLE YIELDS (1)

* Estimated

NAME OF WATERWORKS, TREATMENT PLANTS, WELLS AND INTAKES	PRODUCTION CAPACITY (m3/d)	REPORTED PRODUCTION 1987 (m3/d)	1988 (m3/d)	1989 (m3/d)	DEPENDABLE YIELD RAINY (m3/d)	DRY (m3/d)
NORTH CENTRAL DISTRICT						
1 AROUCA WELLS	1,860	584	577	797 *	653	653
2 CARONI/ARENA TREATMENT PLANT	272,760	259,424	259,781	264,850	272,760	272,760
3 CAURA WATERWORKS	11,360	10,584	9,932	9,590	11,360	9,094
4 LAS LOMAS WATERWORKS	11,360	11,515	10,330	9,559	11,360	11,360
5 LOANGO INTAKE	-	59	59	59 *	59	59
6 LOANGO/NARANJO WATERWORKS	3,180	3,116	2,488	3,171	3,180	2,214
7 LOPINOT INTAKE	145	35	35	35 *	35	35
8 Mt. D'OR INTAKE	-	88	88	88 *	88	88
9 ST. JOHN'S INTAKE	451	454	454	454 *	454	454
10 SURREY INTAKE	45	18	18	18 *	18	18
11 TACARIGUA WELLS	14,550	4,823	15,887	14,516 *	14,550	14,550
12 VALSAYN WATERWORKS	27,280	21,689	25,094	28,331 *	27,280	27,280
13 WATERFALL ROAD INTAKE	-	59	59	59 *	59	59
NORTH EAST DISTRICT						
14 ARIMA WELL #6	3,000	645	644	644 *	644	644
15 ARIPO INTAKE	-	35	34	35 *	4,535	4,535
16 ARIPO NEW WATERWORKS	15,900	9,312	8,365	8,997	10,530	8,059
17 BRASSO SECO-PARIA INTAKE	-	27	27	27 *	27	27
18 CUMACA INTAKE	45	9	24	68 *	45	45
19 FOUR ROAD/TAMANA INTAKE	70	68	74	91 *	70	70
20 GRAND RIVIERE INTAKE	45	35	35	35 *	35	35
21 GUAICO TAMANA/LOS ARMADILLOS INTAKE	105	91	77	35 *	105	105
22 GUANAPO WATERWORKS	11,360	5,791	5,776	8,625	11,360	11,360
23 HOLLIS WATERWORKS	31,826	23,040	25,722	23,452 *	31,826	25,000
24 MATELOT INTAKE	105	35	35	35 *	35	35
25 MATURA INTAKE	49	35	35	35 *	35	35
26 MONTEVIDEO INTAKE	45	35	35	35 *	35	35
27 MORNE LA CROIX	-	27	27	27 *	27	27
28 NORTH OROPOUCHE WATERWORKS	90,920	53,898	46,728	57,334	90,125	44,825
29 SALIBEA INTAKE	45	35	35	35 *	35	35
30 SANS SOUCI INTAKE	-	468	501	509 *	493	493
31 TOCO WATERWORKS	4,546	2,372	1,851	1,896 *	2,162	1,525
32 VALENCIA INTAKE (QUARE)	6,818	2,924	3,295	2,586 *	2,935	2,935
NORTH WEST DISTRICT						
33 ACONO WATERWORKS	2,100	1,994	1,699	2,065	2,100	1,543
34 BLANCHISSEUSE INTAKE	61	61	44	44 *	44	44
35 CHAGUARAMAS WELLS	-	5,669	5,669	5,645 *	5,669	5,669
36 DAMIER (BLANCHISSEUSE) WATERWORKS	143		355	360 *	358	358
37 DORRINGTON GARDEN	5,400	3,444	2,404	2,844 *	5,400	5,400
38 EL SOCORRO WATERWORKS	27,270	23,598	23,146	25,633 *	24,126	24,126
39 FOUR ROADS WELLS	28,900	29,864	29,890	28,786 *	28,900	28,900
40 LA CANOA INTAKE	200	59	106	88 *	200	200
41 LA PASTORA RES. ROAD	-	59	94	95 *	94	94
42 LA PASTORA WELLS	2,900	1,450	1,451	1,515 *	2,900	2,900
43 LA PASTORA/CAPRIATA INTAKE	-	106	63	95	88	88
44 LAS CUEVAS INTAKE	120	269	241	287 *	266	266
45 MON REPOS INTAKE	90	44	44	47 *	45	45
46 PIPIOL INTAKE	90	88	88	81 *	90	90
47 RIVER ESTATE WELLS	6,820	6,064	7,173	6,054 *	6,820	6,820
48 TUCKER VALLEY WELLS	7,971	7,121	8,425	8,338 *	7,971	7,971
49 TYRICO INTAKE	900	268	284	363 *	305	305
PORT OF SPAIN DISTRICT						
50 ARIAPITA INTAKE	327	112	142	161 *	138	138

Table B-10 ESTIMATED DEPENDABLE YIELDS (2)

* Estimated

NAME OF WATERWORKS, TREATMENT PLANTS, WELLS AND INTAKES	PRODUCTION CAPACITY (m3/d)	REPORTED PRODUCTION 1987 (m3/d)	1988 (m3/d)	1989 (m3/d)	DEPENDABLE YIELD RAINY (m3/d)	DRY (m3/d)
51 CASCADE INTAKE	-	231	193	196 *	207	207
52 DIBE INTAKE	-	187	100	148 *	145	145
53 KING GEORGE V PARK WELLS	10,340	7,438	5,551	6,307 *	10,340	10,340
54 MARAVAL WATERWORKS	5,910	5,648	4,304	4,850 *	5,910	4,770
55 MOKA WELLS	1,590	2,090	2,090	1,441 *	1,590	1,590
56 PARAMIN WATERWORKS	1,178	458	366	346 *	390	390
57 SAVANNAH WELLS	12,270	10,206	9,501	8,406 *	12,270	12,270
58 ST ANN'S INTAKE	840	295	510	695 *	840	840
59 ST. CLAIR WELL	1,820	1,440	1,885	2,201 *	1,820	1,820
SAN FERNANDO/SOUTH CENTRAL DISTRICT						
60 CARLSEN FIELD WATERWORKS	18,180	8,439	10,604	11,293	11,175	11,175
61 FREEPORT WATERWORKS	11,360	3,852	5,236	4,432	6,165	6,165
SOUTH EAST DISTRICT						
62 AMOCO TOURNEBRIDGE WELLS	2,000	1,240	1,221	1,121	1,194	1,194
63 BICHE WATERWORKS	400	251	272	253	259	259
64 GUARACARA (SPRING)	1,136	1,067	725	343	1,136	1,136
65 GUAYAGUAYARE WELL #1	-	-	841	953	897	897
66 MALONEY WELLS	-	1,195	1,294	1,584	1,358	1,358
67 MAYARO WELLS	1,477	635	866	876	792	792
68 MAYO SPRINGS	630	595	613	652	630	630
69 MORICHAL	718	659	521	718	718	718
70 NAVET WATERWORKS	77,280	75,479	72,100	74,037	77,280	77,280
SOUTH WEST DISTRICT						
71 CAP DE VILLE WATERWORKS	1,006	1,218	938	1,157	1,006	1,006
72 CARAPAL WATERWORKS (PALO SECO/ERIN)	1,400	1,367	1,333	1,325	1,400	1,400
73 CHATHAM WATERWORKS	11,360	4,726	4,665	4,387	6,750	6,750
74 CLARKE ROAD WELLS	623	580	482	314	623	623
75 FYZABAD WATERWORKS	1,500	1,486	1,701	1,570	1,500	1,500
76 GRANVILLE WATERWORKS	2,800	3,201	2,800	2,780	2,800	2,800
77 PENAL WATERWORKS	3,500	3,764	3,009	3,156	3,500	3,500
78 POINT FORTIN WATERWORKS	980	712	393	390	980	980
79 SIPARIA (COORA) WATERWORKS	3,033	2,989	2,954	2,859	3,033	3,033
80 TEXACO TO GUAYAGUARE	180	100	94	92 *	180	180
81 TRINTOC TO PT. FORTIN	-	90	51	65	69	69
82 TRINTOC TO TECHIER	-	214	161	90 *	155	155
TOBAGO						
83 HILLSBOROUGH WATERWORKS	8,582	5,881	7,111	7,070	8,582	8,582
84 CHARLOTTEVILLE	600	396	418	350	388	388
85 RICHMOND WATERWORKS	2,467	1,522	1,749	1,800	2,467	2,467
86 COURLAND WATERWORKS	7,368	6,160	6,186	6,406	7,368	7,368
87 CASTARA	80	98	161	37	80	80
88 BLOODY BAY	24	5	10	10 *	24	24
89 L'ANSE FOURMI	34	23	27	18 *	34	34
90 PARLATUVIER	70	6	18	- *	70	70
91 SPEYSIDE	86	350	321	- *	86	86
92 CRAIG HALL INTAKE	2,461	1,067	1,367	1,428	2,461	2,461
93 KINGS BAY WATERWORKS	2,994	1,410	1,483	1,702	2,994	2,994
94 GREEN HILL INTAKE	3,360	1,322	1,189	1,653	3,360	3,360
95 GOV'T FARM WELL #3	335	215	-	-	335	335
96 HILLSBOROUGH WEST RIVER	3,500	-	-	-	3,500	3,500
T O T A L (m3/d) IN TRINIDAD	764,673	633,452	636,814	657,566	739,540	679,378
T O T A L (m3/d) IN TOBAGO	31,961	18,455	20,040	20,474	31,749	31,749
G R A N D T O T A L (m3/d)	796,634	651,907	656,854	678,040	771,289	711,127

NOTE: 1989's productions were calculated from the records until October 1989.

Water Quality

Water Quality of Groundwater

Most of groundwater in Trinidad and Tobago is suitable for drinking purpose, however groundwater from the Central Sands Aquifer and Southern Sands Aquifer tends to contain high concentration of iron as shown in the table below. Waterworks which extract water from these aquifers have treatment facilities such as aerators, (sedimentation basins), and filters to remove iron.

Iron Contents of Major Well Fields in Central and Southern Area

Well Field	Total Iron (mg/l) Raw	Treated
Central Area		
Carlsen Field	3.1	0.8
Las Lomas	6.2	1.5
Freeport	12	-
Southern Area		
Point Fortine	5.9	0.6
Penal	2.1	0.8
Siparia	2.6	-
Clarke Road	2.0	-
Fyzabad	2.5	0.1
Cap-de-Ville	0.3	0.3
Chatham	3.2	0.2
Granville	1.0	-

Source: Central Laboratory, WASA (1988 average)

Majority of groundwater from northern area is of good quality and distributed after a sole treatment process, chlorination, to the consumers.

Chloride concentration of several wells near the coastal line is found indicating sea water intrusion depending on wells' location and geological condition.

Water Quality of Surface Water

Caroni River and Arena Impounding Reservoir

Caroni River conveys raw water to the intake of the Caroni Treatment Plant, collecting water from ten major tributaries with vast catchment area which contains commercial and industrial estates as well as agricultural area. Mostly in the dry season, however, Arena impounding reservoir releases water to the Caroni River through the Tumpuna River in order to supplement necessary amount of flow of Caroni River at the intake. The portion from the Arena Reservoir ranges from 9 % to 87 % of the total discharge at the Caroni Plant Intake and approximately 60 % on the average during the dry season in 1988.

Water quality of the raw water is characterized by relatively high turbidity when compared with the other river intake sources. One of the causes of this high turbidity is considered due to industrial activities such as quarries of the upstream. During the survey by the JICA Study Team, Arima River, which is one of the major tributaries, showed outstandingly high turbidity over 450 NTU due to the effluent from quarries (Dec. 12 '89 sample). In addition to that, bacteriological quality of the raw water was significantly poor indicated by very high coliform counts over 100,000 N/100 ml at the intake of the Caroni Treatment Plant. The recent survey on water pollution of the Caroni River by Wessex Consultants in collaboration with WASA (1988) indicated that the existing low quality of the Caroni River is due to effluents from industry and farms.

Navet, Hollis and Hillsborough Impounding Reservoir

The water quality of Hollis Reservoir is stable with low turbidity and colour values through a year. Navet and Hillsborough Reservoirs show high colour units due to humic substances derived from the decomposition of plants in the catchment and surrounding areas. Colours in finished waters are 25 and 35 in Hazen units as the mean in the rainy season for Navet and hillsborough, respectively (WASA's Central Laboratory,1988).

River Intake Sources

All the river sources in Trinidad are located in the Northern Range. The water quality of these rivers are generally good with low turbidity. However, turbidity in the rainy season tends to fluctuate sharply according to upstream rainfall which usually lasts very short period.

Following table shows turbidity values of river intake sources in 1988. The average turbidity of Caroni river is relatively higher than those of the other rivers.

Turbidity of River Intake Sources, 1988

River Sources	TURBIDITY (NTU) JANUARY - MAY DRY SEASON MEAN	RANGE	JUNE - DECEMBER RAINY SEASON MEAN	RANGE
North Oropouche	0.6	0.3 - 2.0	1.6	0.4 - 7.0
Aripo	1.5	0.1 - 3.0	7	0.6 - 56
Caura	0.8	0.6 - 1.0	3	0.8 - 17
Loango/Naranjo	1.2	0.6 - 3.6	21	1.6 - 100
Acono	0.8	0.4 - 2.5	2.9	0.5 - 16
Caroni	31	16 - 70	113	20 - 250

* Source: WASA's Central Laboratory

Water Quality Control

WASA's Central Laboratory in the Head Quarter is in charge of supervising water quality of supplied water in Trinidad and Tobago. The Laboratory periodically collects and analyzes water samples for chemical and bacteriological analyses from different water sources, waterworks and distribution network throughout Trinidad and Tobago. About 3,000 samples for chemical and 10,000 samples for bacteriological analyses were collected and analyzed by the Laboratory in 1988. In addition to this Laboratory, Caroni Treatment Plant and Navet Treatment Plant have own laboratories which supervise water quality of raw and finished waters for monitoring the treatment processes.

In general, bacteriological quality of supplied water is satisfactorily maintained safe to the consumers by practicing chlorination at respective sources of supply. However, the following are considered to be major problems on controlling water quality.

a) Raw water quality of Caroni Treatment Plant is low. Although the treatment plant has the modernized treatment processes including activated carbon filtration, the raw water is currently exposure to the possible contamination from industry and farms. It is of important to enhance monitoring the raw water quality. Valuable recommendations have been already made in the report titled "Water Pollution Control, 1988" including licensing system to control the effluent discharged into the Caroni tributaries with bylaws.

b) The current chemical application practice for the river intake sources in northern range does not seem to respond quickly to the changes of raw water. It is of importance to enhance operators' duties in order to use chemicals effectively and economically.

c) Due to limited manpower and laboratory facilities, supervising the water quality from separately located 95 sources by a sole laboratory, Central Laboratory, seems to be overwhelming. Especially for Tobago, a laboratory which covers Tobago's production sources is necessary.

d) To achieve lower concentration of iron in the finished water from the groundwater sources, existing facilities such as aerators and filters as well as operation procedures should be modified or improved according to the levels of the function of the facilities.

e) Colour removal is a major concern for Navet and Hillsborough Waterworks. Generally, it is necessary to adjust pH to a lower level than that for the ordinal coagulation in order to remove colour effectively. Monitoring of coagulation process should be strengthened for proper chemical dosages by the plant operators.

C: QUESTIONNAIRES FOR DOMESTIC CUSTOMERS SURVEY

WATER AND SEWERAGE AUTHORITY

CUSTOMERS SURVEY ON DOMESTIC WATER USE

Identifying Number: Questionnaire Number:_____

County/Ward :_____

E.D. Number :_____

Household Number :_____

Name of Respondent (Head of Household):_____

Address of Household:_____

Ward:_____ County:_____

Date of first visit:_____

Date of second visit:_____

Date of third visit:_____

Result Code

1 [] Completed
2 [] Not at home
3 [] Refusal
4 [] Vacant dwelling
5 [] Closed dwelling
6 [] Address not found
7 [] Other _____(Specify)

_____ Name of Supervisor

_____ Name of Interviewer

SECTION I

(To be answered by all heads of households)

---

1. What type of house do you occupy?

Separate	1 []
Double house/Duplex	2 []
Condominium/Townhouse	3 []
Flat/Apartment	4 []
Residential/Commercial	5 []
Other	6 []

2. Do you own, lease or rent this house?

Own	1 []	Rent	3 []
Lease	2 []	Squat	4 []

Other _____ 5 []
(Specify)

3. How many years have you been living in this house?

0 to 2 years	1 []	6 to 10 years	3 []
3 to 5 years	2 []	11 to 20 years	4 []
More than 20 years	5 []		

4. How many rooms are there in this house?

One room	1 []	Three rooms	3 []
Two rooms	2 []	4 to 5 rooms	4 []
More than 5 rooms	5 []		

5. (a) How many persons live in this house?

One person	1 []	Four persons	4 []
Two persons	2 []	Five persons	5 []
Three persons	3 []	Six persons	6 []
More than 6 persons	7 []		

(b) How many persons of this households are at home during daytime hours?

None	1 []	Three persons	4 []
One person	2 []	Four persons	5 []
Two persons	3 []	Five persons	6 []
More than 5 persons	7 []		

(c) How many persons are there of the age group stated below.

0 to 2 years _____ persons

3 to 64 years _____ persons

65 years and over _____ persons

6. How is your house actually supplied with water?

Connection by pipe into dwelling	1 []
Connection by pipe in yard	2 []
Delivery trucks	3 []
Public standpipe	4 []
Rivers or wells	5 []
Rain	6 []
Other _____ (Specify)	7 []

7. Do you have water storage facilities, i.e. tanks, cisterns?

Yes 1 [] No 2 []

If Yes, what is the capacity of the storage?

_____ gallons/cu.meters

8. Is your house connected to an existing supply system - i.e. WASA installations or Private?

Yes 1 [] No 2 []

If Yes, what is the system?

WASA system 1 []

Private system 2 []

Other _____ 3 []
(Specify)

If Yes, Go to **Section II** If No, Go to **Section III**

SECTION II

(Questions to be answered by household connected to the Water System)

---

1. How many hours per day do you receive water?

24 hours	1 []	Less than 12 hours	4 []
17 to 23 hours	2 []	None at all	5 []
12 to 16 hours	3 []		

2. How many days per week do you receive water?

7 days	1 []	1 to 3 days	3 []
4 to 6 days	2 []	None at all	4 []

3. How is your water pressure?

Very good	1 []	Fair	3 []
Good	2 []	Poor	4 []

4. What is the quality of the water?

Clear	1 []	Distinct odor	3 []
Discoloured	2 []	Odorless	4 []

5. Do you have any of following in your house/property?

Shower	1 []	Water heater	6 []
Bathtub	2 []	Washing machine	7 []
Bidet	3 []	Dish washer	8 []
W/C	4 []	Swimming pool	9 []
Garden tap/Sprinkler	5 []	Pond/fountain	10 []

Water-cooled air-conditioner 11 []

Other _____ 12 []
(Specify)

6. How many times a week do you use your washing machine if you have one?

_____ times/household

7. How many times a week do you use your bathtub if you have one?

_____ times/household

8. How many times a day do you use your shower(s) if you have one?

_____ times/household

9. How many times a week do you wash your car(s) if you have one?

_____ times/household

10. How many taps do you have in your house/property?

_____ pc.

11. Do you have a meter to measure your water consumption directly?

Yes 1 [] No 2 []

12. Do you receive bills for water supplied by WASA?

Yes 1 [] No 2 []

13. What amount do you pay per quarter as water rate?

Quarterly TT $ _____

14. Do you receive water by truck delivery?

Yes 1 [] No 2 []

15. Do you treat water for drinking purpose in this house?

Yes 1 [] No 2 []

If Yes, how do you treat it?

Boil 1 []

Filter 2 []

Use other method _____ 3 []
(Specify)

16. How do you consider the rate you pay for water to be in relation to those of electricity and telephone?

High 1 [] Low 3 []

Moderate 2 []

17. How do you dispose of your waste water?

Surface drain/canal 1 [] Other _____ 2 []
(Specify)

18. What type of toilet facilities do you have?

Pit latrine	1 []
Septic tank	2 []
W/C linked to Private System	3 []
W/C linked to Public System	4 []
None/other	5 []

19. Please give the occupation and income of all members of the household who work as follows: (If member does not work, record none)

Members	Occupation & Type of Worker	$ Income	Pay Period
1. Head			
2. Member			
3. Member			
4. Member			
5. Member			

N.B. In the column under "Type of Worker", use the symbols described as follows for each member.

A: Employee B: Self-employed

C: Other

20. Would you like to have your water supply metered?

Yes 1 [] No 2 []

21. Are you satisfied with WASA water supply?

Yes 1 [] No 2 []

22. Have you ever noticed any advertisement regarding water saving?

Yes 1 [] No 2 []

SECTION III

(Questions to be answered by household not connected to the Water System)

---

1. How do you obtain water?

Truck	1 []	Rain	4 []
Standpipe	2 []	Wells	5 []
Spring/river	3 []	Other	6 []

2. How much water does your household consume?

(Express type of container) _____

	Day	Week	Month
Number of containers			
Capacity of container			
Price paid per container, if any			

3. If standpipe or river, what type of container do you use to fetch water?

Type of Container	Capacity (litres/ gallons)	How many carried in each trip
_____	_____	_____

4. How do you transport the water?

By hand	1 []
Push-cart	2 []
Motor vehicle	3 []
Other _____ (Specify)	4 []

5. How far do you go to fetch water?

_____ kilometers

6. For each trip, how many persons go?

_____ persons

7. How much time does a trip take?

_____ hrs. _____ mins.

8. How do you dispose of your waste water?

Surface drain/canal 1 []

Other _____ 2 []
(Specify)

9. Is there a water main in front of your house?

Yes 1 [] No 2 []

10. Do you need any of the following services?

Potable water	Yes	1 []	No	2 []
Sewerage	Yes	1 []	No	2 []

11. Have you asked the administration for connection to the network?

Potable water	Yes	1 []	No	2 []
Sewerage	Yes	1 []	No	2 []

12. If Yes, are you experiencing any problems in obtaining service? What type of problems did you experience?

_____

_____

_____

13. Do you treat water for drinking purpose in this house?

Yes 1 [] No 2 []

If Yes, how do you treat it?

Boil 1 []

Filter 2 []

Use other method _____ 3 []
(Specify)

14. Please give the occupation and income of all members of the household who work as follows: (If member does not work, record none)

Members	Occupation & Type of Worker	$ Income	Pay Period
1. Head			
2. Member			
3. Member			
4. Member			
5. Member			

N.B. In the column under "Type of Worker", use the symbols described as follows for each member.

A: Employee B: Self-employed

C: Other

15. Would you like to have your water supply metered?

Yes 1 [] No 2 []

16. Have you ever noticed any advertisement regarding water saving?

Yes 1 [] No 2 []

D: QUESTIONNAIRES FOR PUBLIC, COMMERCIAL AND INDUSTRIAL SURVEY

WATER AND SEWERAGE AUTHORITY

CUSTOMERS SURVEY ON PUBLIC, COMMERCIAL AND INDUSTRIAL WATER USE

Identifying Number: Questionnaire Number:_____

County/Ward :_____

E.D. Number :_____

Building Number :_____

Name of Customer/Establishment:_____

Address of Customer/Establishment:

_____

Ward:_____ County:_____

Date of first visit:_____

Date of second visit:_____

Date of third visit:_____

Result Code

1 [] Completed

2 [] Refusal

3 [] Address not found

4 [] Other _____
(Specify)

_____ _____
Name of Supervisor Name of Interviewer

1. What type of establishment is this?

_____

2. What is your major product, if any?

_____
(Specify)

3. What is the number of employees?

_____ persons

4. What is the operating hours?

7:00 a.m. to 4:00 p.m. 1 []

8:00 a.m. to 5:00 p.m. 2 []

9:00 a.m. to 4:00 p.m. 3 []

Other _____ 4 []
(Specify)

5. What is the total area of the floor space?

_____ sq.ft.

6. Do you have water storage facilities, i.e. tanks, cisterns?

Yes 1 [] No 2 []

If Yes, what is the capacity of the storage?

_____ gallons/cu. meter

7. Do you have any of the following on this premises?

Shower 1 []

W/C 2 []

Other _____ 3 []
(Specify)

8. How many taps are there on this premises? _____ pc.

9. Is it connected to an existing supply system - i.e. WASA installations or Private?

Yes 1 [] No 2 []

If Yes, what is the system?

WASA system 1 []

Private system 2 []

Other _____ 3 []
(Specify)

10. How many hours per day do you receive water?

24 hours	1 []	Less than 12 hours	4 []
17 to 23 hours	2 []	None at all	5 []
12 to 16 hours	3 []		

11. How many days per week do you receive water?

7 days	1 []	1 to 3 days	3 []
4 to 6 days	2 []	None	4 []

12. How is your water pressure?

Very good	1 []	Fair	3 []
Good	2 []	Poor	4 []

13. What is the quality of the water?

Clear	1 []	Distinct odor	3 []
Discoloured	2 []	Odorless	4 []

14. Do you have a meter to measure your water consumption directly?

Yes 1 [] No 2 []

15. Do you receive bills for water supplied by WASA?

Yes 1 [] No 2 []

16. What amount do you pay per quarter as water rate?

Quarterly TT $ _____

17. Would you like to have your water supply metered?

Yes 1 [] No 2 []

18. Are you satisfied with WASA water supply?

Yes 1 [] No 2 []

19. Have you ever noticed any advertisement regarding water saving?

Yes 1 [] No 2 []

20. How much water does your establishment consume?

WASA _____ gallons/ cu m per _____

Private _____ gallons/ cu m per _____

E: RESULTS OF QUESTIONNAIRE SURVEY

RESULTS OF QUESTIONNAIRE SURVEY - DOMESTIC (1)-1/2

Q. I-1 TYPE OF HOUSE	
Separate	465
Duplex	95
Town House	5
Apartment	83
Res/Com.	25
Other	2
TOTAL	675

Q. I-2 TENANCY	
Own	513
Lease	16
Rent	125
Squat	3
Other	18
TOTAL	675

Q. I-3 YEARS LIVING	
0-2 Years	69
3-5 Years	99
6-10 Years	96
11-20 Years	142
> 20 Years	266
Not Applicable	1
Not Stated	2
TOTAL	675

Q. I-4 ROOMS	
1 Room	14
2 Rooms	75
3 Rooms	198
4-5 Rooms	305
> 5 Rooms	82
Not Stated	1
TOTAL	675

Q. I-5(a) PERSONS	
One	47
Two	101
Three	103
Four	133
Five	104
Six	71
> Six	116
TOTAL	675

Q. I-5(b) AT HOME	
None	105
One	231
Two	175
Three	73
Four	36
Five	20
> Five	35
TOTAL	675

Q. I-5(c) AGE	
(Aged 0-2)	
None	541
One	111
Two	14
Three	6
Six	2
Eight	1
(Aged 3-64)	
None	36
One	64
Two	96
Three	104
Four	123
Five	100
Six	71
Seven	26
Eight	23
> Eight	32
(Aged 65/over)	
None	515
One	110
Two	48
Three	1
Nine	1
TOTAL	675

Q. I-6 WATER SUPPLY	
Pipe in House	560
Pipe in Yard	111
Truck	1
Rain	1
Other	2
TOTAL	675

Q. I-7 STORAGE FACILITY	
Yes	413
No	262
TOTAL	675

Q. I-7 STORAGE CAPACITY (gallons)	
0-50	63
51-100	19
101-200	15
201-300	19
301-500	197
501-700	4
701-900	61
> 900	28
Not Applicable	262
Not Stated	7
TOTAL	675

Q. I-8 CONNECTION	
Yes	674
No	1
TOTAL	675

Q. I-8 SYSTEM	
WASA	658
Private	16
Not Applicable	1
TOTAL	675

Q. II-1 HOURS	
24 Hours	265
17-23 Hours	38
12-16 Hours	63
< 12 Hours	290
None	16
Not Stated	3
TOTAL	675

Q. II-2 DAYS	
7 Days	386
4-6 Days	114
1-3 Days	157
None	14
Not Stated	4
TOTAL	675

Q. II-3 WATER PRESSURE	
Very Good	63
Good	280
Fair	170
Poor	145
Not Applicable	12
Not Stated	5
TOTAL	675

Q. II-4 QUALITY	
(Color)	
Clear	515
Discolored	145
Not Applicable	12
Not Stated	3
TOTAL	675
(Odor)	
Odor	62
Odorless	482
Not Applicable	12
Not Stated	119
TOTAL	675

Q. II-5 AMENITIES	
(Shower)	
Yes	585
No	90
(Bathtab)	
Yes	59
No	616
(Bidet)	
Yes	89
No	586
(W/C)	
Yes	518
No	157
(Sprinkler)	
Yes	200
No	475
(Water Heater)	
Yes	106
No	569
(Washing Machine)	
Yes	366
No	309
(Dish Washer)	
Yes	13
No	662
(Swimming Pool)	
Yes	1
No	674
(Pond)	
Yes	1
No	674
(Air Conditioner)	
Yes	6
No	669

Q. II-6 USE OF W/MACHINE (Weekly)	
None	316
One	161
Two	114
Three	54
Four	8
Five	6
Six	1
Seven	10
Eight	4
Nine	1
TOTAL	675

Q. II-7 USE OF BATHTUB (Weekly)	
None	643
One	13
Two	6
Three	1
Four	2
Five	1
Six	1
Seven	5
Eight	2
Nine	1
TOTAL	675

Q. II-8 USE OF SHOWER (Daily)	
None	129
One	14
Two	75
Three	37
Four	74
Five	29
Six	61
Seven	6
Eight/Over	239
Not Stated	11
TOTAL	675

Q. II-9 WASHING CAR (Weekly)	
None	456
One	170
Two	28
Three	7
Four	1
Five	3
Six	2
Seven	4
Eight	2
Nine	2
TOTAL	675

Q. II-10 NUMBER OF TAPS	
None	10
One	63
Two	91
Three	151
Four	157
Five	110
Six	37
Seven	23
Eight	17
Nine/Over	16
TOTAL	675

Q. II-11 METER	
Yes	57
No	612
Not Applicable	3
Not Stated	3
TOTAL	675

Q. II-12 BILLS	
Yes	505
No	155
Not Applicable	8
Not Stated	7
TOTAL	675

Q. II-13 WATER RATE (TT $, Quarterly)	
0	12
15	1
25	12
29	1
30	1
32	1
35	1
38	1
40	2
46	1
48	1
50	46
52	1
54	1
55	1
60	5
62	4
64	1
65	2
70	4
75	9
80	76
84	5
85	4
86	2
87	4
88	6
89	1
90	4
92	1
95	1
96	1
100	27
102	1
106	1
108	2
110	1
(TT $, Quarterly)	
112	1
120	6
125	19
126	1
130	3
131	1
132	1
134	1
135	2
136	13
138	1
140	7
142	2
144	1
146	1
147	1
150	47
155	2
156	1
160	2
165	1
167	1
168	1
173	1
175	4
180	6
184	2
185	1
188	1
189	1
190	1
191	1
195	1
200	29
204	1
208	1
212	1
217	1
219	3
220	2
225	14
229	1
237	1
240	2
247	1
249	1
250	25
259	1
269	1
270	1
271	1
272	1
274	1
275	3
278	1
279	1
280	1
281	1
287	1
294	3
295	1
300	5
319	1
320	1
325	1
336	1
350	4
370	1
375	3
400	7
425	1
465	1
500	3
637	1
700	1
702	1
Not Applicable	126
Not Stated	36
TOTAL	675

RESULTS OF QUESTIONNAIRE SURVEY - DOMESTIC (1)-2/2

Q. II-14 TRUCK DELIVERY	
Yes	31
No	638
Not Applicable	3
Not Stated	3
TOTAL	675

Q. II-15 TREATMENT	
Yes	250
No	423
Not Applicable	1
Not Stated	1
TOTAL	675

Q. II-15 METHOD	
Boil	235
Filter	12
Not Applicable	426
Not Stated	2
TOTAL	675

Q. II-16 RELATION	
High	264
Moderate	224
Low	18
Not Applicable	120
Not Stated	49
TOTAL	675

Q. II-17 DISPOSAL	
Canal/Drain	524
Sewer	146
Not Stated	5
TOTAL	675

Q. II-18 TOILET	
Pit Latrine	145
Septic Tank	338
WC-Private S.	47
WC-Public S.	143
None/Other	1
Not Stated	1
TOTAL	675

Q. II-19 OCCUPATION (Worker 1) Code Number	
0	169
2	2
3	6
4	1
5	2
6	1
7	4
10	1
12	2
13	24
14	1
16	1
19	4
21	1
32	11
33	7
34	2
35	3
36	1
37	3
38	3
39	16
40	6
41	27
42	3
43	3
44	4
45	21
51	1
53	7
54	4
55	6
56	1
58	31
59	7
61	18
62	3
63	3
64	2
69	66
70	11
71	3
74	1
77	1
79	6
80	1
83	1
84	15
85	6
87	15
90	2
93	2
95	12
96	1
97	5
98	31
99	84
TOTAL	675

(Worker 2) Code Number	
0	416
2	2
3	3
7	7
8	1
9	3
11	3
12	1
13	20
19	1
20	1
30	2
32	6
33	13
35	1
39	21
40	4
41	8
42	1
43	1
44	2
45	7
51	1
53	2
54	6
55	5
58	12
59	9
61	4
62	1
63	2
64	4
69	6
70	2
77	1
79	3
81	1
84	4
85	1
86	1
87	4
88	1
89	1
90	2
92	4
95	9
97	2
98	14
99	49
TOTAL	675

(Worker 3) Code Number	
0	618
2	1
3	2
12	1
13	1
16	1
19	1
32	1
37	1
39	8
41	3
45	8
58	5
59	1
64	3
70	1
85	1
95	1
97	1
99	16
TOTAL	675

(Worker 4) Code Number	
0	657
32	1
33	1
39	2
41	1
45	1
58	2
70	1
84	1
85	1
99	7
TOTAL	675

(Worker 5) Code Number	
0	667
7	1
34	1
41	1
99	5
TOTAL	675

Q. II-19 TYPE OF WORKER	
(Worker 1)	
Employee	331
Self-employed	101
Other	1
Not Applicable	236
Not Stated	6
(Worker 2)	
Employee	205
Self-employed	39
Not Applicable	423
Not Stated	8
(Worker 3)	
Employee	44
Self-employed	6
Not Applicable	620
Not Stated	5
(Worker 4)	
Employee	12
Self-employed	1
Not Applicable	657
Not Stated	5
(Worker 5)	Frequency
Employee	2
Self-employed	1
Not Applicable	667
Not Stated	5
TOTAL	675

Q. II-22 ADVERTISEMENT	
Yes	597
No	75
Not Stated	3
TOTAL	675

Q. II-19 MONTHLY INCOME (Worker 1) (TT $)	
None	237
1-250	7
251-500	22
501-750	14
751-1000	55
1001-1500	69
1501-2000	68
2001-2500	31
2501-3000	35
3001-3500	9
3501-4000	9
4001-4500	6
4501-5000	3
> 5000	7
Not Stated	103
TOTAL	675
(Worker 2) (TT $)	
None	425
1-250	2
251-500	15
501-750	19
751-1000	35
1001-1500	40
1501-2000	26
2001-2500	13
2501-3000	15
3001-3500	2
3501-4000	5
4001-4500	1
4501-5000	4
> 5000	3
Not Stated	70
TOTAL	675
(Worker 3) (TT $)	
None	619
251-500	2
501-750	6
751-1000	7
1001-1500	8
1501-2000	4
2001-2500	3
2501-3000	2
Not Stated	24
TOTAL	675
(Worker 4) (TT $)	
None	658
501-750	1
751-1000	1
1001-1500	3
1501-2000	2
Not Stated	10
TOTAL	675
(Worker 5) (TT $)	
None	668
751-1000	1
1001-1500	1
Not Stated	5
TOTAL	675

Q. II-20 METER	
Yes	183
No	382
Not Applicable	71
Not Stated	39
TOTAL	675

Q. II-21 SATISFACTION	
Yes	358
No	312
Not Applicable	2
Not Stated	3
TOTAL	675

RESULTS OF QUESTIONNAIRE SURVEY - DOMESTIC (2)

Q. I-1 TYPE OF HOUSE	
Separate	223
Duplex	11
Apartment	4
Res/Com.	4
TOTAL	242

Q. I-2 TENANCY	
Own	206
Lease	6
Rent	16
Squat	8
Other	6
TOTAL	242

Q. I-3 YEARS LIVING	
0-2	25
3-5	44
6-10	54
11-20	48
> 20	71
TOTAL	242

Q. I-4 ROOMS	
1 Room	27
2 Rooms	48
3 Rooms	92
4-5 Rooms	66
> 5 Rooms	9
TOTAL	242

Q. I-5(a) PERSONS	
One	31
Two	20
Three	30
Four	46
Five	32
Six	23
> Six	60
TOTAL	242

Q. I-5(b) AT HOME	
None	15
One	93
Two	50
Three	31
Four	27
Five	11
> Five	15
TOTAL	242

Q. I-5(c) AGE	
(Aged 0-2)	
None	173
One	55
Two	13
Three	1
(Aged 3-64)	
None	9
One	26
Two	28
Three	35
Four	50
Five	26
Six	27
Seven	12
Eight	13
> Eight	16
(Aged 65/over)	
None	210
One	28
Two	4
TOTAL	242

Q. I-6 WATER SUPPLY	
House	2
Yard	2
Truck	16
Standpipe	131
River/Well	9
Rain	60
Other	22
TOTAL	242

Q. I-7 STORAGE	
(Facility)	
Yes	196
No	46
TOTAL	242
(Capacity, gallons)	
0-50	45
51-100	18
101-200	15
201-300	6
301-500	72
501-700	8
701-900	15
> 900	16
NA	46
NS	1
TOTAL	242

Q. I-8 CONNECTION	
Yes	0
No	242
TOTAL	242

Q. I-8 SYSTEM	
WASA	0
Private	0
NA	242
TOTAL	242

Q. III-1 WATER	
Truck	26
Standpipe	149
Spring/River	14
Rain	30
Wells	2
Other	21
TOTAL	242

Q. III-2 CONTAINER	
(Type)	
Bucket	107
Barrel	99
Bottle	18
Tank	8
Drum	6
NS	4
TOTAL	242
(Number)	
1	92
2	61
3	19
4	10
5	20
6	9
7	6
8	6
9	4
10	6
> 10	8
NS	1
TOTAL	242
(Capacity, gallons)	
1	1
2	9
3	38
4	30
5	38
6	2
8	2
10-19	11
20-29	8
30-39	8
40-49	80
50-59	6
60-69	3
70-79	1
80-89	3
90-99	2
TOTAL	242

(Price, TT$)	
0	225
1	2
2	1
3	2
5	5
10	2
20	3
25	1
30	1
TOTAL	242

Q. III-3 STANDPIPE USER	
(Container Type)	
Bucket	118
Barrel	14
Bottle	34
Tank	1
Drum	2
Other	2
NA	69
NS	2
TOTAL	242
(Capacity, gallons)	
1	3
2	14
3	45
4	39
5	56
6	3
NA	72
NS	10
TOTAL	242
(Number of Container)	
1	47
2	87
3	8
4	9
5	8
6	3
7	1
NA	71
NS	8
TOTAL	242

Q. III-4 TRANSPORTATION	
By Hand	135
Push-cart	16
M/Vehicle	19
Other	3
NA	67
NS	2
TOTAL	242

Q. III-5 DISTANCE	
(yards)	
0-30	22
31-60	20
61-100	19
101-200	24
201-500	55
501-1000	14
> 1000	14
NA	69
NS	5
TOTAL	242

Q. III-6 PERSONS A TRIP	
1	110
2	31
3	14
4	11
5	3
6	1
7	1
NA	70
NS	1
TOTAL	242

Q. III-7 TIME FOR TRIP	
0-10 Minutes	70
11-20 Minute	41
21-30 Minute	34
31-60 Minute	16
> 1 Hour	9
NA	69
NS	3
TOTAL	242

Q. III-8 DISPOSAL	
Canal/Drain	234
Sewer	6
NS	2
TOTAL	242

Q. III-9 WATER MAIN	
Yes	79
No	162
NS	1
TOTAL	242

Q. III-10 SERVICES	
(Water)	
Yes	168
No	70
NS	4
TOTAL	242
(Sewerage)	
Yes	101
No	111
NS	30
TOTAL	242

Q. III-11 REQUEST	
(Water)	
Yes	40
No	193
NS	9
TOTAL	242
(Sewerage)	
Yes	19
No	176
NS	47
TOTAL	242

Q. III-12 PROBLEMS	
Turned Down	2
No Main Pipe	4
No Money	5
New Request	2
Lease Land	2
No Response	10
Other	12
NA	203
NS	2
TOTAL	242

Q. III-13 TREATMENT	
Yes	89
No	152
NA	1
TOTAL	242

Q. III-13 METHOD	
Boil	91
NA	149
NS	2
TOTAL	242

Q. III-14 OCCUPATION	
(Worker 1)	
Code Number	
0	72
13	1
14	1
17	1
21	1
31	1
32	2
36	1
39	3
Code Number	
41	4
45	8
54	2
58	9
59	5
61	11
62	1
64	1
69	21
70	4
71	1
77	1
79	1
84	2
85	1
87	3
93	2
95	17
97	2
98	11
99	52
TOTAL	242
(Worker 2)	
Code Number	
0	186
3	1
30	1
33	2
39	1
43	1
45	1
53	2
55	2
57	1
61	2
62	2
69	4
71	1
77	1
79	2
81	1
84	2
85	2
87	1
93	1
95	6
98	1
99	18
TOTAL	242
(Worker 3)	
Code Number	
0	232
53	1
54	2
55	1
77	1
87	1
95	1
99	3
TOTAL	242
(Worker 4)	
Code Number	
0	238
45	1
64	1
87	1
99	1
TOTAL	242
(Worker 5)	
Code Number	
0	241
99	1
TOTAL	242

Q. III-16 ADVERTISEMENT	
Yes	177
No	63
NS	2
TOTAL	242

Q. III-14 WORKER TYPE	
(Worker 1)	
Employee	104
Selfemployee	40
Other	1
NA	92
NS	5
TOTAL	242
(Worker 2)	
Employee	40
Selfemployee	10
NA	190
NS	2
TOTAL	242
(Worker 3)	
Employee	8
NA	232
NS	2
TOTAL	242
(Worker 4)	
Employee	2
Selfemployee	1
NA	238
NS	1
TOTAL	242
(Worker 5)	
NA	241
NS	1
TOTAL	242

Q. III-14 INCOME	
(Worker 1)	
(TT $, monthly)	
None	92
1-250	6
251-500	16
501-750	11
751-1000	29
1001-1500	42
1501-2000	13
2001-2500	2
2501-3000	1
3001-3500	4
NS	26
TOTAL	242
(Worker 2)	
(TT $, monthly)	
None	190
1-250	3
251-500	7
501-750	5
751-1000	10
1001-1500	9
1501-2000	7
NS	11
TOTAL	242
(Worker 3)	
(TT $, monthly)	
None	232
501-750	2
1001-1500	3
NS	5
TOTAL	242
(Worker 4)	
(TT $, monthly)	
None	238
NS	4
TOTAL	242
(Worker 5)	
(TT $, monthly)	
None	241
NS	1
TOTAL	242

Q. III-15 METER	
Yes	99
No	83
NA	20
NS	40
TOTAL	242

N. B. NA: Not Applicable
NS: Not Stated

RESULTS OF QUESTIONNAIRE SURVEY – INDUSTRIAL

Q.1 ESTABLISHMENT (Code Number)	
0	6
301	2
307	5
311	2
312	3
313	1
314	1
321	1
322	4
323	2
324	1
331	1
332	2
341	3
342	4
351	1
352	1
353	3
357	1
361	1
363	1
372	1
381	2
382	2
383	2
384	2
385	1
511	1
517	1
610	2
612	1
614	1
616	1
617	1
619	7
621	12
622	7
623	1
624	15
626	11
627	5
628	23
629	12
631	10
632	9
639	1
711	4
712	1
713	4
714	1
719	3
811	8
812	1
821	12
831	1
832	10
833	6
834	3
911	1
920	2
931	5
932	1
934	2
937	2
939	1
941	2
943	1
949	3
951	8
952	1
959	8
960	2
999	1
TOTAL	271

Q.3 NO. OF EMPLOYEE	
0	5
1-10	108
11-20	58
21-30	39
31-50	24
51-100	22
101-200	8
201-600	4
NS	3
TOTAL	271

Q.4 OPERATING HOURS	
7:00-16:00	40
8:00-17:00	130
9:00-16:00	6
6:00-18:00	41
5:00-24:00	31
> 16 hours	4
24 hours	16
Other	3
TOTAL	271

Q.5 FLOOR AREA (sq. ft)	
< 250	9
250-500	16
501-1000	18
1001-1500	21
1501-2000	11
2001-3000	21
3001-4000	19
4001-5000	16
5001-7500	22
7501-10000	17
10001-15000	12
15001-20000	10
20001-30000	9
30001-50000	5
50001-100000	5
> 100000	7
NS	53
TOTAL	271

Q.6 STORAGE FACILITY	
Yes	178
No	92
NS	1
TOTAL	271

Q.6 STORAGE CAPACITY (gallons)	
10	1
45	1
100	1
200	2
250	3
300	3
350	1
400	41
450	5
500	4
600	2
700	2
800	28
900	1
1000	4
1200	12
1400	3
1500	2
1600	9
2000	7
2200	1
2400	4
2800	1
3000	6
3400	1
3500	1
3600	1
4000	2
4200	2
4800	1
6000	1
8000	1
10000	2
13000	1
20000	3
21000	1
23000	1
24000	1
25000	1
30000	1
35000	1
40000	1
NA	92
NS	12
TOTAL	271

Q.7 AMENITIES (Shower)	
Yes	118
No	150
NS	3
TOTAL	271
(W/C)	
Yes	260
No	8
NS	3
TOTAL	271
(Other Amenities)	
Yes	36
No	232
NS	3
TOTAL	271

Q.8 NUMBER OF TAPS	
0	4
1	23
2	42
3	36
4	39
5	27
6	29
7	10
8	7
9	2
10	7
11	3
12	10
13	1
14	2
15	2
16	2
17	1
18	2
20	2
21	2
24	2
29	1
30	1
35	1
57	1
65	2
140	1
150	1
531	1
NS	7
TOTAL	271

Q.9 CONNECTION	
Yes	266
No	5
TOTAL	271

Q.9 WATER SYSTEM	
WASA	263
Private	5
Other	2
NA	1
TOTAL	271

Q.10 HOURS	
24 Hours	142
17-23 Hours	10
12-16 Hours	17
< 12 Hours	81
None	10
NA	4
NS	7
TOTAL	271

Q.11 DAYS	
7 Days	173
4-6 Days	46
1-3 Days	30
None	9
NA	5
NS	8
TOTAL	271

Q.12 WATER PRESSURE	
Very Good	20
Good	134
Fair	51
Poor	46
NA	11
NS	9
TOTAL	271

Q.13 WATER QUALITY (Color)	
Clear	193
Discolored	62
NA	10
NS	6
TOTAL	271
(Odor)	
Distinct	37
Odorless	199
NA	10
NS	25
TOTAL	271

Q.14 WATER METER	
Yes	46
No	206
NA	2
NS	17
TOTAL	271

Q.15 BILLS	
Yes	209
No	50
NA	7
NS	5
	271

Q.16 WATER RATE (TT $, Quarterly)	
≦100	4
101-200	15
201-300	8
301-400	6
401-500	15
501-600	10
601-700	23
701-800	7
801-1000	5
1001-1200	6
1201-1500	3
1501-2000	2
2001-3000	7
3001-4000	8
4001-5000	3
5001-7000	6
7001-10000	5
10001-20000	5
20001-40000	4
>40001	3
NA	39
NS	87
TOTAL	271

Q.17 LIKE METERED	
Yes	70
No	91
NA	43
NS	67
TOTAL	271

Q.18 SATISFACTION	
Yes	149
No	112
NA	7
NS	3
TOTAL	271

Q.19 ADVERTISEMENT	
Yes	238
No	31
NS	2
TOTAL	271

Q.20 CONSUMPTION (WASA Water) (gallons, Daily)	
0-50	79
51-100	29
101-200	16
201-300	17
301-500	20
501-1000	15
1001-2000	8
2001-5000	5
5001-20000	5
NA	7
NS	70
TOTAL	271

Q.20 CONSUMPTION (Private Water) (gallons, Daily)	
20	2
200	1
300	1
411	1
600	1
NA	265
TOTAL	271

N.B. NA: Not Applicable
NS: Not Stated

OCCUPATION CODES

MAJOR DIVISION 0/1: PROFESSIONAL, TECHNICAL AND RELATED WORKERS

0-1	Physical scientists and related technicians
0-2/0-3	Architects, engineers and related technicians
0-4	Aircraft and ships' officers
0-5	Life scientists and related technicians
0-6/0-7	Medical, dental, veterinary and related workers
0-8	Statisticians, mathematicians, systems analysts and related technicians
0-9	Economists
1-1	Accountants
1-2	Jurists
1-3	Teachers
1-4	Workers in religion
1-5	Authors, Journalists and related writers
1-6	Sculptors, painters, photographers and relative creative artists
1-7	Composers and performing artistes
1-8	Athletes, sportsmen and related workers
1-9	Professional, technical and related workers not elsewhere classified

MAJOR DIVISION 2: ADMINISTRATIVE AND MANAGERIAL WORKERS

2-0	Legislative officials and government administrators
2-1	Managers

MAJOR DIVISION 3: CLERICAL AND RELATED WORKERS

3-0	Clerical supervisors
3-1	Government executive officials
3-2	Stenographers, typists and card and tape-punching machine operators
3-3	Book-keepers, cashiers and related workers
3-4	Computing machine operators
3-5	Transport and communications supervisors
3-6	Transport conductors
3-7	Mail distribution clerks
3-8	Telephone and telegraph operators
3-9	Clerical and related workers not elsewhere classified

MAJOR DIVISION 4: SALES WORKERS

4-0	Managers (wholesale and retail trade)
4-1	Working proprietors (wholesale and retail trade)
4-2	Sales supervisors and buyers
4-3	Technical salesmen, commercial travellers and manufacturers' agents
4-4	Insurance, real estate, securities and business services salesmen and auctioneers
4-5	Salesmen, shop assistants and related workers
4-9	Sales workers not elsewhere classified

MAJOR DIVISION 5: SERVICE WORKERS

5-0	Managers (catering and lodging services)
5-1	Working proprietors (catering and lodging services)
5-2	Housekeeping and related service supervisors
5-3	Cooks, waiters, bartenders and related workers
5-4	Maids and related housekeeping service workers not elsewhere classified
5-5	Building caretakers, charworkers, cleaners and related workers
5-6	Launderers, dry-cleaners and pressers
5-7	Hairdressers, barbers, beauticians and related workers
5-8	Protective service workers
5-9	Service workers not elsewhere classified

MAJOR DIVISION 6: AGRICULTURAL ANIMAL HUSBANDRY AND FORESTRY WORKERS, FISHERMEN AND HUNTERS (except group 6-9)

6-0	Farm managers and supervisors
6-1	Farmers
6-2	Agricultural and animal husbandry workers
6-3	Forestry workers
6-4	Fishermen, hunters and related workers
6-9	Pensioner

MAJOR DIVISIONS 7, 8, 9: PRODUCTION AND RELATED WORKERS, TRANSPORT EQUIPMENT OPERATORS AND LABOURERS

7-0	Production supervisors and general foremen
7-1	Miners, quarrymen, well drillers and related workers
7-2	Metal processors
7-3	Wood preparation workers and paper makers
7-4	Chemical processors and related workers
7-5	Spinners, weavers, knitters, dyers and related workers
7-6	Tanners, felmongers and pelt dressers
7-7	Food and beverage processors
7-8	Tobacco preparers and tobacco product makers
7-9	Tailors, dressmakers, sewers, upholsterers and related workers

7, 8, 9: Production and Related Workers, Transport Equipment Operators and Labourers - Continued

8-0	Shoemakers and leather goods makers
8-1	Cabinet makers and related wood workers
8-2	Stone cutters and cavers
8-3	Blacksmiths, toolmakers and machine tool operators
8-4	Machinery fitters, machine assemblers and precision instrument makers (except electrical)
8-5	Electrical fitters and related electrical and electronics workers
8-6	Broadcasting station and sound equipment operators and cinema projectionists
8-7	Plumbers, welders, sheet metal and structural metal preparers and erectors
8-8	Jewellery and precious metal workers
8-9	Glass formers, potters and related workers
9-0	Rubber and plastic products makers
9-1	Paper and paperboard products makers
9-2	Printers and related workers
9-3	Painters
9-4	Production and related workers not elsewhere classified
9-5	Bricklayers, carpenters and other construction workers
9-6	Stationary engine and related equipment operators
9-7	Material-handling and related equipment operators, dockers and freight handlers
9-8	Transport equipment operators
9-9	Labourers not elsewhere classified and workers not classifiable by occupation.

INDUSTRY CODES

MAJOR DIVISION 1: AGRICULTURE, HUNTING, FORESTRY AND FISHING

Division 10/11/12 Agricultural and Livestock Production

101-109	Field Crop Cultivation
111	Root Crop Cultivation
112-119	Growing of Fruits and Vegetables
121	Poultry Production
122	Pig Rearing
123	Cattle Rearing
124	Small Stocks
125	Agricultural, Animal Husbandry and Horticultural Services
126-128	Other Agricultural and Livestock Production

Division 13 - Forestry and Logging

131	Forestry and Logging
132	Forestry Related Activities

Division 14 - Fishing

140	Fishing

Division 15 - Hunting, Trapping and Game Propagation

150	Hunting, Trapping and Game Propagation

MAJOR DIVISION 2: MINING AND QUARRYING

Division 21 - Coal Mining

210	Coal Mining

Division 22 - Crude Petroleum and Natural Gas Production

221	Crude Petroleum Production
222	Natural Gas Production
223	Service Contractors

Division 23 - Metal Ore Mining

230	Metal Ore Mining

MAJOR DIVISION 2: MINING AND QUARRYING - Continued

Division 24 - Quarrying

240 Quarrying

Division 29 - Other Mining and Quarrying

290 Other Mining and Quarrying

MAJOR DIVISION 3: MANUFACTURING

Division 30/31 - Manufacture of Food

301 Slaughtering, preparing and preserving meat.
302 Manufacture of dairy products.
303 Canning and Processing of fruits and vegetables.
304 Canning, preserving and processing of fish, crustacean and similar foods.
305 Manufacture of vegetable and animal oils and fats.
306 Grain Mills.
307 Manufacture of bakery products.
308 Sugar Factories and Refineries.
309 Cocoa, Chocolate and sugar confectionery.
311 Manufacture of food products n.e.c.
312 Manufacture of prepared animal feeds.
313 Alcoholic Beverages.
314 Non-alcoholic Beverages.
315 Tobacco Manufactures.

Division 32 - Textiles, Wearing Apparel and Leather Industries

321 Manufacture of Textiles.
322 Manufacture of wearing apparel except footwear.
323 Manufacture of leather and products of leather (except footwear and wearing apparel).
324 Manufacture of footwear, except vulcanized or moulded rubber or plastic footwear.

Division 33 - Manufacture of Wood and Wood Products, including Furniture

331 Manufacture of wood and wood and cork products except furniture.
332 Manufacture of furniture and fixtures, except primarily of metal.

MAJOR DIVISION 3: MANUFACTURING - Continued

Division 34 - Manufacture of Paper and Paper Products, Printing and Publishing

341 Manufacture of paper and paper products.
342 Printing, Publishing and allied industries.

Division 35 - Manufacture of Chemicals and of Chemical, Petroleum, Coal, Rubber and Plastic products.

351 Manufacture of Industrial Chemicals.
352 Manufacture of Paints, Varnishes, lacquers and allied products.
353 Manufacture of other chemical products.
354 Petroleum Refineries.
355 Manufacture of miscellaneous products of petroleum and coal.
356 Manufacture of Rubber Products.
357 Manufacture of plastic products n.e.c.

Division 36 - Manufacture of Non-metallic Mineral Products Except Products of Petroleum and Coal.

361 Manufacture of pottery, china and earthenware.
362 Manufacture of glass and glass products.
363 Manufacture of cement, concrete and products of concrete and clay.
369 Manufacture of other non-metallic mineral products.

Division 37 - Basic Metal Industries

371 Iron and Steel basic industries.
372 Non-ferrous metal basic industries.
379 Basic Metal Industries n.e.c.

Division 38 - Manufacture of Fabricated Metal Products, Machinery and Equipment.

381 Manufacture of fabricated metal products except machinery and equipment.
382 Manufacture of machinery except electrical.
383 Manufacture of electrical machinery, apparatus, appliances or supplies.
384 Manufacture of transport equipment.
385 Manufacture of professional, scientific, measuring and controlling equipment n.e.c.
389 Manufacture of fabricated metal products, machinery and equipment n.e.c.

Division 39 - Other Other Manufacturing Industries.

390 Manufacturing Industries n.e.c.

MAJOR DIVISION 4: ELECTRICITY, GAS AND WATER

Division 41 - Electricity, gas, steam and other sources of energy.

410 Electricity, gas, steam and other sources of energy.

Division 42 - Waterworks and Supply

420 Waterworks and supply.

MAJOR DIVISION 5: THE CONSTRUCTION INDUSTRY

Division 51 - Construction

511 Construction, maintenance and alteration of buildings.
512 Construction and maintenance of Industrial Plants.
513 Construction and maintenance of electric power stations and installations.
514 Construction and maintenance of crude petroleum and natural gas installations.
515 Construction and maintenance of water reservoirs, irrigation systems and installations.
516 Construction and maintenance of mining sites.
517 Construction and maintenance of roads, bridges, ports, etc.
518 Construction and maintenance of communication and other systems.
519 Construction and maintenance of drainage and reclamation systems.

Division 52/53 - Activities allied to Construction.

521 Site preparation and excavation activities.
522 Structural Steel fabrication and erection.
523 Concrete mixing and preparation.
524 Roof and ceiling.
525 Weather proofing (e.g. mastic asphalting).
526 Plumbing.
527 Electrical Installation.
528 Air conditioning, insulation and ventilation.
529 Flooring (carpeting, parquetry).
531 Painting and decorating.
532 Lifts and escalators, conveyors, cranes and other transport systems.
533 Glazing.
534 Installation of windows.
535 Tiling.
536 Joinery (kitchen cupboards etc.).
537 General contractors.
539 Other activities allied to construction n.e.c.

MAJOR DIVISION 6: WHOLESALE AND RETAIL TRADE RESTAURANTS AND HOTELS

Division 61 - Wholesale Trade

610-611	Food, beverages, tobacco and intoxicants.
612	Mineral fuels and lubricants.
613	Wood and wood products.
614	Textile, wearing apparel, footwear and leather.
615	Animal and vegetable oils and fats (edible and non-edible).
616	Light and heavy machniery, vehicles and equipment.
617	Chemicals, drugs, pharmaceuticals and cosmetics.
618	Miscellaneous manufactured goods.
619	Wholesale merchants and distributors.

Division 62 - Retail Trade

621	Food, beverages, tobacco and intoxicants.
622	Mineral fuels and lubricants.
623	Wood and wood products.
624	Textile, wearing apparel, footwear and leather.
625	Animal and vegetable oils and fats (edible and non-edible).
626	Light and heavy machinery, vehicles and equipment.
627	Chemicals, drugs, pharmaceuticals and cosmetics.
628	Miscellaneous
629	Miscellaneous

Division 63 - Restaurants, hotels and guest houses

631	Restaurants, cafeterias and other eating and drinking places.
632	Hotels, rooming houses, camps and other lodging places.
639	Restaurants and hotels n.e.c.

MAJOR DIVISION 7: TRANSPORT, STORAGE AND COMMUNICATION

Division 71 - Transport and Storage.

711	Land Transport.
712	Water Transport.
713	Air Transport.
714	Storage and Warehousing
719	Services allied to transport.

Division 72 - Communication.

720	Communication.

MAJOR DIVISION 8: FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES SECTOR

Division 81 - Financial Instutions.

811	Financial Instutions.

Division 82 - Insurance

821	Insurance.

Division 83 - Real Estate and Business Services.

831	Real Estate.
832/833	Business Services except machinery and equipment rental and leasing.
834	Machinery and equipment rental and leasing.

MAJOR DIVISION 9: COMMUNITY, SOCIAL AND PERSONAL SERVICES SECTOR

Division 91 - Public Administration.

911/912	Public Administration and Defence

Division 92- Sanitary and Similar Services.

920	Sanitary and Similar services.

Division 93 - Social and Related Community Services.

931/932	Educational Services - Government and Private Educational Institutions of all types.
933	Research and Scientific Institutions.
934/935	Medical, dental and other health and veterinary services.
936	Welfare Institutions.
937	Business, Professional and labour associations.
939	Social and related Community Services n.e.c.

Division 94 - Recreational and Cultural Services

941	Motion Picture and other media entertainment services.
942	Music and Theatrical Productions and Services.
943	Independent Artistes.
944	Libraries, Museums, botanical and zoological gardens and other cultural services.

MAJOR DIVISION 9: COMMUNITY, SOCIAL AND PERSONAL SERVICES SECTOR - Continued

Division 94 - Recreational and Cultural Services - Continued.

949	Recreational and Cultural Services n.e.c.

Division 95 - Personal and Household Services.

951/952	Repair Services (Informal Sector).
953	Laundries, laundry services, cleaning and dyeing services.
954	Domestic Services.
959	Miscellaneous, personal and household services.

Division 96 - International and other Extra-territorial Bodies.

960	International and other Extra-territorial Bodies.

MAJOR DIVISION 0: ACTIVITIES NOT ADEQUATELY DEFINED

Division 0 - Activities not adequately defined.

000	Activities not adequately defined

F: DATA ON WATER CONSUMPTION

DATA ON WATER CONSUMPTION (1)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
1	Matool	Aranquez Main Road	5			02/02	12.336		
			5	7	35	09/02	14.350	2.014	57.54
			5	7	35	16/02	16.578	2.228	63.66
			5	5	25	21/02	21.000	4.422	176.88
			5	10	50	03/03	27.578	6.578	131.56
			5	8	40	11/03	33.395	5.817	145.43
			5	12	60	23/03	44.065	10.670	177.83
			5	7	35	30/03	49.197	5.132	146.63
			5	7	35	06/04	54.857	5.660	161.71
			5	20	100	26/04	71.677	16.820	168.20
			5	22	110	18/05	86.927	15.250	138.64
			5	14	70	01/06	94.643	7.716	110.23
			5	19	95	20/06	106.160	11.517	121.23
			5	16	80	06/07	120.851	14.691	183.64
			5	21	105	27/07	133.926	13.075	124.52
			5	68	340	03/10	168.000	34.074	100.22
			5	243	1,215	-	-	155.664	128.12
2	S. Garib	Aranquez Main Road	7			02/02	86.053		
			7	7	49	09/02	109.789	23.736	484.41
			7	7	49	16/02	132.125	22.336	455.84
			7	5	35	21/02	149.583	17.458	498.80
			7	10	70	03/03	168.004	18.421	263.16
			7	8	56	11/03	185.620	17.616	314.57
			7	12	84	23/03	208.627	23.007	273.89
			7	7	49	30/03	219.123	10.496	214.20
			7	7	49	06/04	231.475	12.352	252.08
			7	20	140	26/04	272.242	40.767	291.19
			7	22	154	18/05	315.225	42.983	279.11
			7	14	98	01/06	338.296	23.071	235.42
			7	19	133	20/06	387.834	49.538	372.47
			7	16	112	06/07	463.218	75.384	673.07
			7	21	147	27/07	588.821	125.603	854.44
			7	68	476	03/10	670.000	81.179	170.54
			7	243	1,701	-	-	583.947	343.30
3	E. Carter	Aranquez Main Road	10			02/02	76.799		
			10	7	70	09/02	99.273	22.474	321.06
			10	7	70	16/02	121.103	21.830	311.86
			10	5	50	21/02	132.434	11.331	226.62
			10	10	100	03/03	148.875	16.441	164.41
			10	8	80	11/03	160.306	11.431	142.89
			10	12	120	23/03	185.588	25.282	210.68
			10	7	70	30/03	198.262	12.674	181.06
			10	7	70	06/04	215.173	16.911	241.59
			10	20	200	26/04	258.274	43.101	215.51
			10	22	220	18/05	296.524	38.250	173.86
			10	14	140	01/06	320.701	24.177	172.69
			10	19	190	20/06	351.643	30.942	162.85
			10	16	160	06/07	381.327	29.684	185.53
			10	21	210	27/07	419.287	37.960	180.76
			10	68	680	03/10	547.000	127.713	187.81
			10	243	2,430	-	-	470.201	193.50
4	Adina Mc Donald	Arouca	4			31/01	20.471		
			4	17	68	17/02	31.218	10.747	158.04
			4	7	28	24/02	43.199	11.981	427.89
			4	15	60	11/03	48.000	4.801	80.02
			4	9	36	20/03	54.339	6.339	176.08
			4	17	68	06/04	63.235	8.896	130.82
			4	35	140	11/05	81.361	18.126	129.47
			4	46	184	26/06	105.526	24.165	131.33
			4	100	400	04/10	158.000	52.474	131.19
			4	246	984	-	-	137.529	139.77
5	Mannie Gays	Arouca	6			17/02	37.864		
			6	7	42	24/02	45.250	7.386	175.86
			6	9	54	05/03	53.634	8.384	155.26
			6	6	36	11/03	59.686	6.052	168.11
			6	11	66	22/03	71.719	12.033	182.32
			6	6	36	28/03	76.807	5.088	141.33
			6	9	54	06/04	86.756	9.949	184.24
			6	27	162	03/05	111.651	24.895	153.67
			6	22	132	25/05	134.370	22.719	172.11
			6	21	126	15/06	170.226	35.856	284.57
			6	34	204	19/07	224.867	54.641	267.85
			6	77	462	04/10	292.000	67.133	145.31
			6	229	1,374	-	-	254.136	184.96

DATA ON WATER CONSUMPTION (2)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
6	Christopher Drakes	Arouca	9			17/02	62.366		
			9	26	234	15/03	116.663	54.297	232.04
			9	26	234	10/04	179.037	62.374	266.56
			9	177	1,593	04/10	573.000	393.963	247.31
			9	229	2,061	-	-	510.634	247.76
7	R. Mathura & Ors.	Arouca	5			17/02	74.825		
			5	7	35	24/02	90.273	15.448	441.37
			5	9	45	05/03	112.835	22.562	501.38
			5	6	30	11/03	125.713	12.878	429.27
			5	11	55	22/03	153.738	28.025	509.55
			5	15	75	06/04	189.961	36.223	482.97
			5	27	135	03/05	258.020	68.059	504.14
			5	22	110	25/05	315.849	57.829	525.72
			5	21	105	15/06	372.629	56.780	540.76
			5	111	555	04/10	676.000	303.371	546.61
			5	229	1,145	-	-	601.175	525.04
8	Mervyn Ramdeen	Arima	6			20/02	333.765		
			6	3	18	23/02	353.425	19.660	1092.22
			6	10	60	05/03	372.695	19.270	321.17
			6	6	36	11/03	380.819	8.124	225.67
			6	9	54	20/03	392.373	11.554	213.96
			6	17	102	06/04	416.263	23.890	234.22
			6	27	162	03/05	473.231	56.968	351.65
			6	54	324	26/06	592.199	118.968	367.19
			6	23	138	19/07	631.385	39.186	283.96
			6	72	432	29/09	744.000	112.615	260.68
			6	221	1,326	-	-	410.235	309.38
9	Margaret Charles	Arima	2			17/02	23.541		
			2	7	14	24/02	27.786	4.245	303.21
			2	9	18	05/03	31.319	3.533	196.28
			2	7	14	12/03	36.426	5.107	364.79
			2	10	20	22/03	42.083	5.657	282.85
			2	6	12	28/03	47.661	5.578	464.83
			2	9	18	06/04	52.553	4.892	271.78
			2	27	54	03/05	72.537	19.984	370.07
			2	41	82	13/06	94.374	21.837	266.30
			2	36	72	19/07	117.394	23.020	319.72
			2	152	304	-	-	93.853	308.73
10	Kenneth Blache	Arima Old Rd.	5			31/01	27.941		
			5	11	55	11/02	39.902	11.961	217.47
			5	6	30	17/02	47.434	7.532	251.07
			5	7	35	24/02	57.417	9.983	285.23
			5	9	45	05/03	69.855	12.438	276.40
			5	6	30	11/03	79.933	10.078	335.93
			5	9	45	20/03	90.131	10.198	226.62
			5	8	40	28/03	103.046	12.915	322.88
			5	9	45	06/04	117.714	14.668	325.96
			5	35	175	11/05	173.354	55.640	317.94
			5	14	70	25/05	195.681	22.327	318.96
			5	21	105	15/06	226.087	30.406	289.58
			5	34	170	19/07	280.636	54.549	320.88
			5	80	400	07/10	378.000	97.364	243.41
			5	249	1,245	-	-	350.059	281.17
11	Bobby Thomas	Arima	2			14/02	17.968		
			2	3	6	17/02	18.953	0.985	164.17
			2	7	14	24/02	23.548	4.595	328.21
			2	9	18	05/03	27.537	3.989	221.61
			2	7	14	12/03	31.858	4.321	308.64
			2	8	16	20/03	37.765	5.907	369.19
			2	17	34	06/04	50.422	12.657	372.26
			2	35	70	11/05	75.258	24.836	354.80
			2	46	92	26/06	103.149	27.891	303.16
			2	23	46	19/07	115.154	12.005	260.98
			2	84	168	11/10	145.000	29.846	177.65
			2	239	478	-	-	127.032	265.76
12	Roy R. De Landro	Nettoville, Arima	8			13/02	73.737		
			8	4	32	17/02	82.143	8.406	262.69
			8	7	56	24/02	95.595	13.452	240.21
			8	9	72	05/03	114.800	19.205	266.74
			8	7	56	12/03	130.468	15.668	279.79
			8	8	64	20/03	147.088	16.620	259.69
			8	8	64	28/03	165.769	18.681	291.89
			8	9	72	06/04	185.570	19.801	275.01
			8	27	216	03/05	243.743	58.173	269.32

DATA ON WATER CONSUMPTION (3)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
			8	41	328	13/06	333.277	89.534	272.97
			8	36	288	19/07	429.212	95.935	333.11
			8	84	672	07/10	632.000	202.788	301.77
			8	240	1,920	-	-	558.263	290.76
13	Mustapha Ackbarali	Barataria	5			21/02	0.984		
			5	10	50	03/03	18.332	17.348	346.96
			5	7	35	10/03	29.820	11.488	328.23
			5	14	70	24/03	52.202	22.382	319.74
			5	7	35	31/03	62.386	10.184	290.97
			5	6	30	06/04	74.497	12.111	403.70
			5	28	140	04/05	130.237	55.740	398.14
			5	12	60	16/05	152.900	22.663	377.72
			5	16	80	01/06	182.784	29.884	373.55
			5	19	95	20/06	214.453	31.669	333.36
			5	107	535	05/10	396.000	181.547	339.34
			5	226	1,130	-	-	395.016	349.57
14	C. & L. Celestine	Barataria	3			02/02	29.339		
			3	7	21	09/02	37.561	8.222	391.52
			3	7	21	16/02	45.634	8.073	384.43
			3	5	15	21/02	53.682	8.048	536.53
			3	10	30	03/03	61.666	7.984	266.13
			3	7	21	10/03	70.771	9.105	433.57
			3	6	18	16/03	79.910	9.139	507.72
			3	8	24	24/03	89.508	9.598	399.92
			3	7	21	31/03	95.784	6.276	298.86
			3	6	18	06/04	103.091	7.307	405.94
			3	28	84	04/05	143.176	40.085	477.20
			3	14	42	18/05	164.181	21.005	500.12
			3	14	42	01/06	183.259	19.078	454.24
			3	19	57	20/06	211.534	28.275	496.05
			3	16	48	06/07	235.708	24.174	503.63
			3	91	273	05/10	381.000	145.292	532.21
			3	245	735	-	-	351.661	478.45
15	Martin David	Cantaro, Santa Cruz	6			02/02	36.172		
			6	7	42	09/02	50.407	14.235	338.93
			6	7	42	16/02	60.285	9.878	235.19
			6	5	30	21/02	69.873	9.588	319.60
			6	16	96	09/03	94.546	24.673	257.01
			6	14	84	23/03	117.272	22.726	270.55
			6	11	66	03/04	137.344	20.072	304.12
			6	3	18	06/04	143.125	5.781	321.17
			6	20	120	26/04	181.946	38.821	323.51
			6	22	132	18/05	228.295	46.349	351.13
			6	14	84	01/06	248.402	20.107	239.37
			6	38	228	09/07	312.115	63.713	279.44
			6	18	108	27/07	342.915	30.800	285.19
			6	74	444	09/10	472.000	129.085	290.73
			6	249	1,494	-	-	435.828	291.72
16	R. D. Baker	Cantaro, Santa Cruz	6			02/02	68.871		
			6	8	48	10/02	88.313	19.442	405.04
			6	6	36	16/02	102.209	13.896	386.00
			6	5	30	21/02	124.607	22.398	746.60
			6	14	84	07/03	152.438	27.831	331.32
			6	2	12	09/03	157.713	5.275	439.58
			6	14	84	23/03	188.493	30.780	366.43
			6	11	66	03/04	209.031	20.538	311.18
			6	3	18	06/04	214.161	5.130	285.00
			6	42	252	18/05	298.794	84.633	335.85
			6	14	84	01/06	322.191	23.397	278.54
			6	20	120	21/06	357.989	35.798	298.32
			6	18	108	09/07	399.592	41.603	385.21
			6	18	108	27/07	441.013	41.421	383.53
			6	74	444	09/10	583.000	141.987	319.79
			6	249	1,494	-	-	514.129	344.13
17	Victor Bowen	Diamond Vale	5			17/02	37.496		
			5	7	35	24/02	44.817	7.321	209.17
			5	9	45	05/03	54.166	9.349	207.76
			5	6	30	11/03	61.788	7.622	254.07
			5	8	40	19/03	69.362	7.574	189.35
			5	17	85	05/04	88.390	19.028	223.86
			5	22	110	27/04	125.200	36.810	334.64
			5	19	95	16/05	148.475	23.275	245.00
			5	51	255	06/07	206.456	57.981	227.38
			5	139	695	-	-	168.960	243.11

DATA ON WATER CONSUMPTION (4)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
18	Clyde & R. Reid	Diamond Vale	7			17/02	58.785		
			7	7	49	24/02	75.832	17.047	347.90
			7	9	63	05/03	102.888	27.056	429.46
			7	6	42	11/03	116.422	13.534	322.24
			7	8	56	19/03	137.718	21.296	380.29
			7	17	119	05/04	174.103	36.385	305.76
			7	22	154	27/04	244.100	69.997	454.53
			7	21	147	18/05	281.423	37.323	253.90
			7	33	231	20/06	378.559	97.136	420.50
			7	16	112	06/07	423.505	44.946	401.30
			7	139	973	-	-	364.720	374.84
19	Howard Graves	Diamond Vale	2			17/02	17.871		
			2	7	14	24/02	20.865	2.994	213.86
			2	9	18	05/03	26.223	5.358	297.67
			2	6	12	11/03	30.252	4.029	335.75
			2	8	16	19/03	35.329	5.077	317.31
			2	17	34	05/04	45.244	9.915	291.62
			2	29	58	04/05	59.412	14.168	244.28
			2	12	24	16/05	66.051	6.639	276.63
			2	16	32	01/06	74.677	8.626	269.56
			2	19	38	20/06	85.733	11.056	290.95
			2	16	32	06/07	95.543	9.810	306.56
			2	139	278	-	-	77.672	279.40
20	E. I. Goodridge	Diamond Vale	4			17/02	73.255		
			4	7	28	24/02	85.751	12.496	446.29
			4	9	36	05/03	99.969	14.218	394.94
			4	6	24	11/03	105.795	5.826	242.75
			4	8	32	19/03	116.137	10.342	323.19
			4	17	68	05/04	135.456	19.319	284.10
			4	47	188	-	-	62.201	330.86
21	P. Chandan-Dass	El Socorro	13			09/02	117.733		
			13	7	91	16/02	156.882	39.149	430.21
			13	5	65	21/02	187.167	30.285	465.92
			13	9	117	02/03	229.207	42.040	359.32
			13	8	104	10/03	274.963	45.756	439.96
			13	24	312	03/04	392.409	117.446	376.43
			13	3	39	06/04	406.474	14.065	360.64
			13	28	364	04/05	542.737	136.263	374.35
			13	12	156	16/05	610.823	68.086	436.45
			13	35	455	20/06	816.901	206.078	452.92
			13	16	208	06/07	921.554	104.653	503.14
			13	88	1,144	02/10	1,438.000	516.446	451.44
			13	235	3,055	-	-	1,320.267	432.17
22	Peter Fifi	Glencoe	7			02/02	115.985		
			7	7	49	09/02	129.212	13.227	269.94
			7	7	49	16/02	135.178	5.966	121.76
			7	5	35	21/02	143.051	7.873	224.94
			7	16	112	09/03	161.987	18.936	169.07
			7	21	147	30/03	184.117	22.130	150.54
			7	7	49	06/04	195.585	11.468	234.04
			7	20	140	26/04	234.770	39.185	279.89
			7	20	140	16/05	280.674	45.904	327.89
			7	16	112	01/06	308.777	28.103	250.92
			7	19	133	20/06	360.955	52.178	392.32
			7	16	112	06/07	393.590	32.635	291.38
			7	92	644	06/10	642.000	248.410	385.73
			7	246	1,722	-	-	526.015	305.47
23	Margaret R. Rapier	Goodwood Park	4			02/02	35.420		
			4	7	28	09/02	43.697	8.277	295.61
			4	7	28	16/02	55.039	11.342	405.07
			4	42	168	30/03	122.326	67.287	400.52
			4	7	28	06/04	135.064	12.738	454.93
			4	56	224	01/06	263.658	128.594	574.08
			4	19	76	20/06	328.163	64.505	848.75
			4	16	64	06/07	368.264	40.101	626.58
			4	154	616	-	-	332.844	540.33
24	Peter & Donna Stone	Goodwood Park	5			02/02	38.976		
			5	7	35	09/02	49.172	10.196	291.31
			5	7	35	16/02	58.218	9.046	258.46
			5	5	25	21/02	66.929	8.711	348.44
			5	16	80	09/03	90.395	23.466	293.32
			5	21	105	30/03	124.882	34.487	328.45
			5	7	35	06/04	139.191	14.309	408.83
			5	56	280	01/06	223.186	83.995	299.98

DATA ON WATER CONSUMPTION (5)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
			5	119	595	-	-	184.210	309.60
25	Valantine Modeste	La Florisante	2			31/01	5.939		
			2	17	34	17/02	11.587	5.648	166.12
			2	16	32	05/03	17.030	5.443	170.09
			2	15	30	20/03	27.219	10.189	339.63
			2	17	34	06/04	37.697	10.478	308.18
			2	35	70	11/05	60.726	23.029	328.99
			2	46	92	26/06	104.756	44.030	478.59
			2	23	46	19/07	114.842	10.086	219.26
			2	169	338	-	-	108.903	322.20
26	Dooban Ramdehal	La Resource Road South	6			11/02	67.025		
			6	6	36	17/02	83.714	16.689	463.58
			6	7	42	24/02	103.292	19.578	466.14
			6	26	156	22/03	176.076	72.784	466.56
			6	15	90	06/04	223.783	47.707	530.08
			6	49	294	25/05	395.201	171.418	583.05
			6	19	114	13/06	458.426	63.225	554.61
			6	36	216	19/07	551.080	92.654	428.95
			6	158	948	-	-	484.055	510.61
27	Phillip Deterville	La Resource Road South	2			31/01	6.675		
			2	11	22	11/02	13.484	6.809	309.50
			2	6	12	17/02	17.677	4.193	349.42
			2	7	14	24/02	21.844	4.167	297.64
			2	16	32	12/03	31.756	9.912	309.75
			2	8	16	20/03	37.826	6.070	379.38
			2	17	34	06/04	54.023	16.197	476.38
			2	68	136	13/06	99.090	45.067	331.38
			2	36	72	19/07	140.420	41.330	574.03
			2	169	338	-	-	133.745	395.70
28	Rookain Moosai	Macoya Main Road	7			17/02	110.778		
			7	3	21	20/02	117.317	6.539	311.38
			7	3	21	23/02	123.248	5.931	282.43
			7	10	70	05/03	144.939	21.691	309.87
			7	17	119	22/03	179.506	34.567	290.48
			7	6	42	28/03	195.761	16.255	387.02
			7	7	49	04/04	208.613	12.852	262.29
			7	29	203	03/05	269.861	61.248	301.71
			7	22	154	25/05	286.625	16.764	108.86
			7	14	98	08/06	318.209	31.584	322.29
			7	7	49	15/06	335.268	17.059	348.14
			7	34	238	19/07	423.143	87.875	369.22
			7	152	1,064	-	-	312.365	293.58
29	Arthur Teleford	Macoya	7			17/02	69.419		
			7	3	21	20/02	78.111	8.692	413.90
			7	3	21	23/02	84.789	6.678	318.00
			7	10	70	05/03	106.208	21.419	305.99
			7	6	42	11/03	124.732	18.524	441.05
			7	11	77	22/03	151.510	26.778	347.77
			7	6	42	28/03	165.028	13.518	321.86
			7	9	63	06/04	186.007	20.979	333.00
			7	27	189	03/05	253.162	67.155	355.32
			7	22	154	25/05	301.331	48.169	312.79
			7	14	98	08/06	331.171	29.840	304.49
			7	7	49	15/06	347.002	15.831	323.08
			7	34	238	19/07	429.536	82.534	346.78
			7	152	1,064	-	-	360.117	338.46
30	Partap Boodoo	Tacarigua	4			17/02	33.687		
			4	7	28	24/02	42.924	9.237	329.89
			4	9	36	05/03	55.620	12.696	352.67
			4	6	24	11/03	62.253	6.633	276.38
			4	11	44	22/03	75.595	13.342	303.23
			4	15	60	06/04	95.985	20.390	339.83
			4	35	140	11/05	149.692	53.707	383.62
			4	35	140	15/06	202.117	52.425	374.46
			4	11	44	26/06	231.619	29.502	670.50
			4	23	92	19/07	257.151	25.532	277.52
			4	152	608	-	-	223.464	367.54
31	L. Andrews	Tacarigua	2			20/02	16.197		
			2	9	18	01/03	20.332	4.135	229.72
			2	10	20	11/03	25.018	4.686	234.30
			2	11	22	22/03	29.436	4.418	200.82
			2	15	30	06/04	37.968	8.532	284.40
			2	35	70	11/05	50.564	12.596	179.94
			2	46	92	26/06	72.692	22.128	240.52

DATA ON WATER CONSUMPTION (6)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
			2	23	46	19/07	86.101	13.409	291.50
			2	149	298	-	-	69.904	234.58
32	Ellis Baptiste	Trincity	5			17/02	14.591		
			5	8	40	25/02	18.899	4.308	107.70
			5	8	40	05/03	23.940	5.041	126.03
			5	7	35	12/03	27.883	3.943	112.66
			5	10	50	22/03	33.091	5.208	104.16
			5	6	30	28/03	37.020	3.929	130.97
			5	8	40	05/04	40.202	3.182	79.55
			5	36	180	11/05	63.996	23.794	132.19
			5	46	230	26/06	93.861	29.865	129.85
			5	23	115	19/07	107.125	13.264	115.34
			5	152	760	-	-	92.534	121.76
33	John Haynes	Trincity	4			17/02	56.974		
			4	7	28	24/02	65.055	8.081	288.61
			4	5	20	01/03	71.988	6.933	346.65
			4	4	16	05/03	78.669	6.681	417.56
			4	6	24	11/03	88.207	9.538	397.42
			4	11	44	22/03	101.174	12.967	294.70
			4	6	24	28/03	110.891	9.717	404.88
			4	8	32	05/04	120.365	9.474	296.06
			4	36	144	11/05	170.144	49.779	345.69
			4	46	184	26/06	240.585	70.441	382.83
			4	23	92	19/07	272.794	32.209	350.10
			4	152	608	-	-	215.820	354.97
34	M. & Mungal Singh	Tunapuna	7			17/02	74.480		
			7	6	42	23/02	83.000	8.520	202.86
			7	10	70	05/03	100.523	17.523	250.33
			7	6	42	11/03	111.690	11.167	265.88
			7	11	77	22/03	132.349	20.659	268.30
			7	6	42	28/03	142.230	9.881	235.26
			7	7	49	04/04	153.137	10.907	222.59
			7	51	357	25/05	257.724	104.587	292.96
			7	14	98	08/06	285.544	27.820	283.88
			7	18	126	26/06	326.260	40.716	323.14
			7	27	189	23/07	396.880	70.620	373.65
			7	70	490	01/10	557.000	160.120	326.78
			7	226	1,582	-	-	482.520	305.01
35	S. & M. Sookoo	Tunapuna	6			17/02	61.142		
			6	6	36	23/02	76.893	15.751	437.53
			6	16	96	11/03	101.700	24.807	258.41
			6	11	66	22/03	117.900	16.200	245.45
			6	6	36	28/03	124.067	6.167	171.31
			6	7	42	04/04	132.360	8.293	197.45
			6	29	174	03/05	174.924	42.564	244.62
			6	22	132	25/05	201.595	26.671	202.05
			6	14	84	08/06	230.205	28.610	340.60
			6	7	42	15/06	239.987	9.782	232.90
			6	11	66	26/06	264.351	24.364	369.15
			6	27	162	23/07	302.525	38.174	235.64
			6	70	420	01/10	393.000	90.475	215.42
			6	226	1,356	-	-	331.858	244.73
36	Rupert Alfred Walker	Tunapuna	2			17/02	27.484		
			2	3	6	20/02	30.147	2.663	443.83
			2	3	6	23/03	32.000	1.853	308.83
			2	10	20	05/03	39.812	7.812	390.60
			2	17	34	22/03	52.580	12.768	375.53
			2	6	12	28/03	56.867	4.287	357.25
			2	7	14	04/04	63.966	7.099	507.07
			2	37	74	11/05	92.719	28.753	388.55
			2	35	70	15/06	120.924	28.205	402.93
			2	34	68	19/07	145.328	24.404	358.88
			2	152	304	-	-	117.844	387.64
37	Albert Lee	Valsayn Park	6			02/02	26.714		
			6	8	48	10/02	37.431	10.717	223.27
			6	6	36	16/02	47.698	10.267	285.19
			6	6	36	22/02	56.527	8.829	245.25
			6	8	48	02/03	64.537	8.010	166.88
			6	8	48	10/03	73.452	8.915	185.73
			6	6	36	16/03	89.618	16.166	449.06
			6	14	84	30/03	110.668	21.050	250.60
			6	6	36	05/04	120.213	9.545	265.14
			6	50	300	25/05	207.456	87.243	290.81
			6	24	144	18/06	245.753	38.297	265.95

DATA ON WATER CONSUMPTION (7)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
			6	21	126	09/07	348.478	102.725	815.28
			6	39	234	17/08	420.955	72.477	309.73
			6	53	318	09/10	518.000	97.045	305.17
			6	249	1,494	-	-	491.286	328.84
38	Anthony Vierra	Victoria Gdns.	2			02/02	14.789		
			2	9	18	11/02	21.612	6.823	379.06
			2	5	10	16/02	25.890	4.278	427.80
			2	5	10	21/02	29.667	3.777	377.70
			2	16	32	09/03	45.022	15.355	479.84
			2	21	42	30/03	70.281	25.259	601.40
			2	7	14	06/04	77.963	7.682	548.71
			2	40	80	16/05	132.472	54.509	681.36
			2	16	32	01/06	155.678	23.206	725.19
			2	19	38	20/06	182.229	26.551	698.71
			2	16	32	06/07	208.861	26.632	832.25
			2	92	184	06/10	354.000	145.139	788.80
			2	246	492	-	-	339.211	689.45
40	Roopchan Ramsingh	Barataria	4			02/02	80.374		
			4	8	32	10/02	109.909	29.535	922.97
			4	9	36	19/02	160.055	50.146	1392.94
			4	12	48	03/03	205.072	45.017	937.85
			4	21	84	24/03	282.031	76.959	916.18
			4	7	28	31/03	301.998	19.967	713.11
			4	6	24	06/04	324.558	22.560	940.00
			4	20	80	26/04	387.527	62.969	787.11
			4	22	88	18/05	400.778	13.251	150.58
			4	14	56	01/06	411.825	11.047	197.27
			4	20	80	21/06	437.819	25.994	324.93
			4	15	60	06/07	464.339	26.520	442.00
			4	21	84	27/07	546.148	81.809	973.92
			4	70	280	05/10	655.000	108.852	388.76
			4	245	980	-	-	574.626	586.35
41	Earl Bhagan	Goodwood Park	6			16/02	101.433		
			6	5	30	21/02	119.366	17.933	597.77
			6	44	264	06/04	235.220	115.854	438.84
			6	20	120	26/04	280.639	45.419	378.49
			6	20	120	16/05	332.601	51.962	433.02
			6	16	96	01/06	374.313	41.712	434.50
			6	19	114	20/06	436.909	62.596	549.09
			6	16	96	06/07	474.582	37.673	392.43
			6	140	840	-	-	373.149	444.23
42	Joseph Henry *	Diamond Vale	3			17/02	240.405		
			3	7	21	24/02	278.971	38.566	1836.48
			3	9	27	05/03	321.586	42.615	1578.33
			3	6	18	11/03	347.241	25.655	1425.28
			3	8	24	19/03	372.426	25.185	1049.38
			3	18	54	06/04	424.534	52.108	964.96
			3	75	225	20/06	636.735	212.201	943.12
			3	37	111	27/07	719.449	82.714	745.17
			3	160	480	-	-	479.044	998.01
43	Lewis Bhagwansingh	St. Augustine	10			17/02	119.761		
			10	6	60	23/02	143.661	23.900	398.33
			10	10	100	05/03	185.758	42.097	420.97
			10	6	60	11/03	208.324	22.566	376.10
			10	11	110	22/03	257.194	48.870	444.27
			10	6	60	28/03	273.002	15.808	263.47
			10	9	90	06/04	307.939	34.937	388.19
			10	27	270	03/05	419.406	111.467	412.84
			10	22	220	25/05	512.313	92.907	422.30
			10	14	140	08/06	572.105	59.792	427.09
			10	18	180	26/06	654.408	82.303	457.24
			10	23	230	19/07	781.248	126.840	551.48
			10	152	1,520	-	-	661.487	435.19
44	Gayasingh	Tacarigua	5			17/02	45.641		
			5	7	35	24/02	56.994	11.353	324.37
			5	9	45	05/03	74.163	17.169	381.53
			5	6	30	11/03	85.766	11.603	386.77
			5	11	55	22/03	103.507	17.741	322.56
			5	15	75	06/04	135.394	31.887	425.16
			5	35	175	11/05	191.326	55.932	319.61
			5	69	345	19/07	292.265	100.939	292.58
			5	79	395	06/10	423.000	130.735	330.97
			5	231	1,155	-	-	377.359	326.72
45	Peter Joseph	Trincity	4			17/02	92.847		

DATA ON WATER CONSUMPTION (8)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
			4	7	28	24/02	112.825	19.978	713.50
			4	5	20	01/03	126.692	13.867	693.35
			4	4	16	05/03	136.776	10.084	630.25
			4	6	24	11/03	156.114	19.338	805.75
			4	11	44	22/03	187.965	31.851	723.89
			4	6	24	28/03	208.563	20.598	858.25
			4	8	32	05/04	227.218	18.655	582.97
			4	36	144	11/05	320.515	93.297	647.90
			4	46	184	26/06	440.766	120.251	653.54
			4	23	92	19/07	513.673	72.907	792.47
			4	152	608	-	-	420.826	692.15
47	Joan L. M. Forrest	Valsayn South	5			02/02	22.500		
			5	8	40	10/02	33.313	10.813	270.33
			5	6	30	16/02	46.673	13.360	445.33
			5	6	30	22/02	53.537	6.864	228.80
			5	8	40	02/03	61.478	7.941	198.53
			5	8	40	10/03	79.980	18.502	462.55
			5	6	30	16/03	83.266	3.286	109.53
			5	14	70	30/03	110.668	27.402	391.46
			5	6	30	05/04	127.939	17.271	575.70
			5	47	235	22/05	224.653	96.714	411.55
			5	17	85	08/06	244.143	19.490	229.29
			5	18	90	26/06	268.090	23.947	266.08
			5	13	65	09/07	288.873	20.783	319.74
			5	34	170	12/08	361.028	72.155	424.44
			5	58	290	09/10	456.000	94.972	327.49
			5	249	1,245	-	-	433.500	348.19
48	Agatha Nora Lake	Glencoe	5			16/02	136.934		
			5	5	25	21/02	150.212	13.278	531.12
			5	16	80	09/03	194.347	44.135	551.69
			5	28	140	06/04	223.958	29.611	211.51
			5	20	100	26/04	238.612	14.654	146.54
			5	36	180	01/06	277.225	38.613	214.52
			5	19	95	20/06	305.280	28.055	295.32
			5	16	80	06/07	319.615	14.335	179.19
			5	140	700	-	-	182.681	260.97
49	Francis Joseph	Cantaro, Santa Cruz	3			02/02	15.348		
			3	7	21	09/02	21.797	6.449	307.10
			3	7	21	16/02	29.828	8.031	382.43
			3	5	15	21/02	40.189	10.361	690.73
			3	16	48	09/03	67.946	27.757	578.27
			3	14	42	23/03	84.374	16.428	391.14
			3	12	36	04/04	97.053	12.679	352.19
			3	2	6	06/04	99.264	2.211	368.50
			3	20	60	26/04	112.951	13.687	228.12
			3	22	66	18/05	127.192	14.241	215.77
			3	14	42	01/06	136.232	9.040	215.24
			3	20	60	21/06	148.751	12.519	208.65
			3	15	45	06/07	161.754	13.003	288.96
			3	21	63	27/07	186.271	24.517	389.16
			3	74	222	09/10	339.000	152.729	687.97
			3	249	747	-	-	323.652	433.27
50	Dwarika	Aranquez	1			02/02	1.331		
			1	7	7	09/02	2.426	1.095	156.43
			1	7	7	16/02	2.431	0.005	0.71
			1	5	5	21/02	2.442	0.011	2.20
			1	10	10	03/03	2.479	0.037	3.70
			1	8	8	11/03	2.535	0.056	7.00
			1	12	12	23/03	2.572	0.037	3.08
			1	7	7	30/03	2.647	0.075	10.71
			1	7	7	06/04	3.361	0.714	102.00
			1	20	20	26/04	3.428	0.067	3.35
			1	22	22	18/05	3.772	0.344	15.64
			1	14	14	01/06	4.037	0.265	18.93
			1	19	19	20/06	4.279	0.242	12.74
			1	16	16	06/07	4.324	0.045	2.81
			1	21	21	27/07	5.199	0.875	41.67
			1	68	68	03/10	7.200	2.001	29.43
			1	243	243	-	-	5.869	24.15
51	B. Balroop	Curepe	6			17/02	106.819		
			6	6	36	23/02	126.913	20.094	558.17
			6	10	60	05/03	161.549	34.636	577.27
			6	6	36	11/03	178.128	16.579	460.53
			6	11	66	22/03	198.721	20.593	312.02

DATA ON WATER CONSUMPTION (9)

No.	Consumers Name	Address	Number of Persons in Occupancy	Duration (Days)	Person * Days	Date Read 1990	Meter Reading (m3)	Water Consumption (m3)	Per Capita Consumption (lpcd)
			6	6	36	28/03	209.785	11.064	307.33
			6	9	54	06/04	224.773	14.988	277.56
			6	35	210	11/05	298.376	73.603	350.49
			6	28	168	08/06	352.674	54.298	323.20
			6	7	42	15/06	364.927	12.253	291.74
			6	34	204	19/07	447.791	82.864	406.20
			6	72	432	29/09	645.000	197.209	456.50
			6	224	1,344	-	-	538.181	400.43
52	Clyde Boothman	Diamond Vale	6			17/02	10.546		
			6	7	42	24/02	15.100	4.554	108.43
			6	9	54	05/03	19.591	4.491	83.17
			6	6	36	11/03	21.686	2.095	58.19
			6	8	48	19/03	24.692	3.006	62.63
			6	17	102	05/04	27.222	2.530	24.80
			6	92	552	06/07	68.328	41.106	74.47
			6	139	834	-	-	57.782	69.28
53	Vernon George	Cantaro, Santa Cruz	4			02/02	5.818		
			4	8	32	10/02	8.321	2.503	78.22
			4	6	24	16/02	10.112	1.791	74.63
			4	5	20	21/02	12.603	2.491	124.55
			4	14	56	07/03	17.544	4.941	88.23
			4	2	8	09/03	18.113	0.569	71.12
			4	14	56	23/03	23.836	5.723	102.20
			4	12	48	04/04	28.063	4.227	88.06
			4	2	8	06/04	28.954	0.891	111.38
			4	20	80	26/04	36.424	7.470	93.38
			4	22	88	18/05	45.986	9.562	108.66
			4	52	208	09/07	61.454	15.468	74.37
			4	18	72	27/07	97.644	36.190	502.64
			4	74	296	09/10	99.000	1.356	4.58
			4	249	996	-	-	93.182	93.56
54	Fred Jackson	St. Augustine	3			17/02	5.964		
			3	6	18	23/02	6.786	0.822	45.67
			3	10	30	05/03	8.139	1.353	45.10
			3	6	18	11/03	9.966	1.827	101.50
			3	17	51	28/03	12.291	2.325	45.59
			3	8	24	05/04	14.206	1.915	79.79
			3	36	108	11/05	26.288	12.082	111.87
			3	28	84	08/06	31.235	4.947	58.89
			3	7	21	15/06	32.872	1.637	77.95
			3	34	102	19/07	38.877	6.005	58.87
			3	152	456	-	-	32.913	72.18
55	James & J. Samuel	Tacarigua	1			20/02	10.259		
			1	9	9	01/03	12.364	2.105	233.89
			1	10	10	11/03	17.616	5.252	525.20
			1	11	11	22/03	20.396	2.780	252.73
			1	6	6	28/03	22.826	2.430	405.00
			1	9	9	06/04	24.834	2.008	223.11
			1	35	35	11/05	34.760	9.926	283.60
			1	44	44	24/06	45.672	10.912	248.00
			1	104	104	06/10	79.000	33.328	320.46
			1	228	228	-	-	68.741	301.50
			4.98	196	52,788			17,372.869	329.11

N.B. *: formerly L. & R. Samuel
Data on water consumption for nos. 39 and 46 are removed because of non-domestic use.

G: POPULATION DISTRIBUTION BY WATER AREA

POPULATION DISTRIBUTION BY WATER AREA
(CENSUS 1980)

1. WATER AREA: DIEGO MARTIN

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: DIEGO MARTIN	Carenage	001-007	7,354	Tucker Valley Wells
	L'Anse Mitan	008	1,036	
	Amow Ville, Pt.Cumuna	009	1,087	
	Sonora Park,Pt.Cumuna	010	735	
	La Horquette	049	812	
	Bayshore/Regents Park	050	633	Four Roads Wells
	Goodwood Park	051	725	Four Roads Wells
	Goodwood Gardens	013	1,852	
	Westmoorings/Victoria Gardens	052	2,200	Four Roads Wells Caroni-Arena
	La Puerta	011-012 054-055	4,966	Four Roads Wells
	Rich Plain	019-020	2,062	Four Roads Wells
	Diamond Vale	021	7,513	Diamond Wells #14,15
	Diego Martin	017-018 022-025 027 060-061	9,094	Four Roads Wells (Diego Martin Road) Dorrington Gardens (Eastern Diego Martin)
	Patna/River Estate	028	3,210	River Estate Wells
	Bagatelle	026	2,000	River Estate Wells
	Blue Range	029-030	2,481	River Estate Wells
	Cameron	032-033	1,618	Dorrington Gardens
	Majuba	031,059	2,508	Dorrington Gardens
	Morne Coco	034-035	1,385	Dorrington Gardens
	Petit Valley	056-058	2,381	Dorrington Gardens Four Roads Wells
	Simeon Road	016	2,385	Four Roads Wells

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Averbough	053	899	Four Roads Wells
WARD: DIEGO MARTIN (Continued)	Union	014	1,339	Four Roads Wells
	Four Roads	015	867	Four Roads Wells
	Islands	085,086	84	Tacker Valley Wells
	SUB TOTAL		61,226	

2. WATER AREA: PORT OF SPAIN

	City Proper	001-024, 133	6,933	Caroni-Arena/Picton #2, El Socorro Waterworks, Savannah Wells #4,#5 (Via Knaggs Hill)
	Woodbrook	025-039	6,154	King George Wells #2-3, Farrell, Caroni-Arena
	St. Clair	040-041	698	Via Knaggs Hill
	New Town	042-045	1,729	Savannah Wells #3-#5
MUNICIPALITY	St. James	046-066, 069	8,990	King George Wells #2-4, Caroni-Arena
	Cocorite	067-068	2,031	Caroni-Arena
	Clifton Hill	085-086	1,349	Caroni-Arena, El Socorro Wells
	East Dry River	070-082, 084, 087-096, 101-102, 130,132	11,161	via Picton #1 & #2
	Gonzales	097-100, 131, 083,108	3,269	Caroni-Arena, El Socorro Waterworks (Picton #1, Gonzales Tank and Booster)
	General Hospital	104	-	Savannah Well #6, Caroni-Arena
	Belmont	103, 105-107, 109-129, 134-135	13,486	Caroni-Arena, El Socorro Waterworks (Via Picton #1) Savannah Wells #1-3 (#6 Hilton), Knaggs Hill

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Maraval	042 044-045	3,058	Moka Wells, Maraval Waterworks
	La Seiva	046-048 080	3,205	Maraval Waterorks
	Haleland Park	043	878	Moka Wells,Maraval W/W
	Sant Deau	040-041	1,553	Moka Wells
	Boissiere No.1	083	498	St.Clair Wells,Savannah Nos.2-3, Knaggs Hill
	Boissiere No.2	081-082	1,397	
WARD: DIEGO MARTIN	Belle Vue	070-071	1,409	Maraval Plant (Via Brieves Road Booster)
	Long Circular	072-073	334	Maraval Plant
	St. James Barracks	075		King George V Park Well #4
	Federation Park	074	477	St. Clair Well and Savannah #2 and #3
	Ellerslie Park	076	553	Maraval Waterworks
	Dibe	077-078	1,751	Dibe Intake Maraval Plant
	Champs Elysees	079	616	Maraval Plant
	Paramin	038-039	842	Paramin Wells
	Morne Roche	036	1,225	Dorrington Gdns. Wells
	Waterhole	063	2,686	Caroni-Arena
	Harding Place	062	1,522	Caroni-Arena
	Ross Lands	064-065	1,393	Maraval Plant (Via St. Clair, Brieves Rd., Ross Lands Booster
	West Vale	084	238	
	Khandahar	066-067	1,616	Maraval
	La Finette	037	494	
	Dundonald Hill	068-069	1,781	Maraval via Dundonald Tank and Brieves Road Booster

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: ST. ANNS	St. Anns	001-003, 105-106	3,194	Caroni-Arena via Tunapuna Booster, El Socorro (Via Picton #1), St. Anns
	Mental Hospital	104		St. Anns/Caroni-Arena via Picton #1
	Cascade	004-007, 170	3,295	Cascade, Caroni-Arena, El Socorro Waterworks, (Via Foncette Booster in Dry Season and Picton #1) and Hollis
	Casablanca	107	487	
	SUB TOTAL		90,302	

3 E.M.R. COMMUNITIES

3.1 WATER AREA: ST.BARBS

WARD: ST. ANNS	Upper Belmont	008-011, 108-109	4,561	Caroni-Arena via Tunapuna Booster, El Socorro (Via Picton #1) Savannah Wells #1-3
	St. Barbs	012-013, 110	1,614	Caroni-Arena via Tunapuna Boodter, El Socorro via Picton #1
	SUB TOTAL		6,175	

3.2 WATER AREA: LAVENTILLE

WARD: ST. ANNS	Laventille	014-015, 067-068, 111	6,325	El Socorro Waterworks (Booster to Picton #3)
	SUB TOTAL		6,325	

3.3 WATER AREA: MORVANT

WARD: ST. ANNS	Morvant	091-097	5,684	Caroni-Arena (Via El Socorro Waterworks)
	Chinapoo	112-113	2,742	

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: ST. ANNS (Continued)	Redhill	083-084	2,217	Caroni-Arena (Via El Socorro Waterworks)
	Romain Lands	114-115	2,099	
	Mon Repos/Never Dirty	116-118	6,398	Caroni-Arena, El Soccoro W/W, Mon Repos Intake
	SUB TOTAL		19,140	

3.4 WATER AREA: PICTON

WARD: ST. ANNS	Picton	016-019 069-070	8,228	Caroni-Arena via T/Booster (Via Kerr Road Off-Take)
	Eastern Quarry	071-072	2,824	Caroni-Arena via T/Booster (Via Prizgar Lands Off-Take)
	Troumacaque	079-082 085	4,684	Caroni-Arena via T/Booster (Pashley Street Off-Take)
	Success Village	073-078 086-089	9,364	Caroni-Arena via T/Booster (Pashley St. Off-Take, St.Joseph and Wharton St. Off-Take)
	Beetham Estate	168-169	664	El Socorro Waterworks Caroni-Arena
	Caledonia No.1	090	580	
	SUB TOTAL		26,344	

3.5 WATER AREA: BARATARIA

WARD: ST. ANNS	Barataria	020-032	10,002	El Socorro 30" at Tenth Avenue Third Avenue Off-Take Eight Avenue Off-Take
	El Socorro	041-048 125-126	11,098	El Socorro Waterworks
	Aranguez	049-059	11,282	El Socorro Waterworks Caroni-Arena

	SUB TOTAL		32,382	

3.6 WATER AREA: ST. JOSEPH

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: ST. ANNS	Mt. Lambert	098-100	1,887	Valsayn Waterworks
	Champs Fleurs	101,103 162-163	2,771	Valsayn Waterworks
	Bamboo Settlement #1	164	1,970	Caroni-Arena via Uriah Butler Highway East Off-Take/St.Joseph Res.
WARD: TACARIGUA	Bamboo Settlement #2	051	1,121	El Socorro Waterworks
	Valsayn	052	1,640	Caroni-Arena Tacarigua
	La Baja	053	1,486	Lluengo/Naranjo Waterworks
	Juaranta Village	054	1,738	
	Lluengo	056	659	Acono Waterworks
	Maracas	055	797	
	Acono Village	057	871	
	St. Joseph	001-005	4,108	Caroni-Arena,Valsayn
	Real Spring	065	1,614	Tacarigua/Caroni-Arena
	Spring Village	066	1,218	
	Morang Village	067	811	
	Pasea	068 077-079	4,807	Tacarigua
	Monte Grande	075-076	1,867	
	SUB TOTAL		29,365	

3.7 WATER AREA: AROUCA

WARD: TACARIGUA	Bonair(Dunder Hill)	091	499	North Oropouche, Hollis
	Red Hill	100	1,937	North Oropouche, Hollis

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Surrey	093	443	Surrey Intake
	La Pastora	095-096	242	Surrey Intake
WARD: TACARIGUA (Continued)	Lopinot	094	575	Lopinot Intake
	Garden Village	098-099	1,706	Arouca Highlift North Oropouche, Hollis
	Golden Grove	097	20	North Oropouche, Hollis
	Arouca	044-050 092	6,466	North Oropouche, Hollis
WARD: ARIMA	Bregon Park	005	958	Arouca Borehole, Hollis (Arouca Offtake)
	La Resource	007	761	
	Crescent Gardens	008	2,364	North Oropouche
	SUB TOTAL		15,971	

3.8 WATER AREA: TACARIGUA

	Paradise	040-042	3,434	Tacarigua Boreholes, Hollis, North Oropouche Caura Waterworks
	Cane Farm	043,084	1,014	
WARD: TACARIGUA	Trincity	082	2,884	Tacarigua Boreholes, Hollis, North Oropouche Caura Waterworks
	Dinsley	083	3,211	Hollis,Caura Waterworks ,Tacarigua
	Kandahar	085-086	1,895	North Oropouche
	Five Rivers	087-090	4,130	North Oropouche
	SUB TOTAL		16,568	

3.9 WATER AREA: SADDLE ROAD

WARD: ST. ANNS	Caledonia No.2	119-122 124	5,402	El Socorro Caroni-Arena

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	San Juan	033-035 039-040	2,854	Valsayn Waterworks (Via Mendez Drive Off-Take)
	Malick	127-128 123	4,838	Caroni-Arena (Third Avenue Off-Take Malick Tank)
	Concord	036-038	2,799	Caroni-Arena (Mt.Hope Tank via Valsayn Water Works)
	Febeau	129-135	7,383	Caroni-Arena (Via Valsayn Waterworks)
	Sam Boucaud	144	723	La Pastora Wells
WARD: ST. ANNS (Continued)	Soconusco	145	818	Caroni-Arena via Balsayn Booster and La Canoa Booster
	Cutucupano	146	716	
	Maracas	165-167	434	
	Pipiol	140	1,060	Pipiol Intake
	Cantaro	141-143	2,840	La Pastora Wells Caroni-Arena
	La Pastora	147-148	1,048	La Pastora Wells
	La Canoa	136-139 149-150	6,204	Caroni-Arena/ La Canoa Intake
	Gran Curacaye	151-152	1,532	Caroni-Arena
	Old Santa Cruz	153-156	3,587	Valsayn Waterworks
	Pitit Bourg	060-066 157-159	7,351	Valsayn Waterworks
	Mt. Dor	160-161	2,459	Valsayn Waterworks
	Mt. Hope	102	1,711	Valsayn Waterworks
	SUB TOTAL		53,759	

3.10 WATER AREA: ST. AUGUSTINE

WARD: TACARIGUA	Curepe	006-007 010-017	10,784	Tacarigua Boreholes Valsayn Waterworks

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	St. Augustine	008-009 018	3,016	Tacarigua Boreholes Valsayn Waterworks
	Caurita Village	058	711	Lluengo/Naranjo W/Works Acono Waterworks
WARD: TACARIGUA (Continued)	La Mango	059	804	Lluengo/Naranjo W/Works Acono Waterworks
	Riverside	060	952	Lluengo/Naranjo W/Works Acono Waterworks
	Santa Margarita	061	802	Valsayn Waterworks
	St. Benedict	063	23	
	St. John Village	062,064	2,032	St. John's Intake
	SUB TOTAL		19,124	

3.11 WATER AREA: TUNAPUNA

	Tunapuna	019-026 028-031 033-034	10,147	Tacarigua Boreholes (Highlift) Caura Waterworks Valsayn
	Maingot Village	027	1,539	
WARD: TACARIGUA	Macoya	032	2,087	Tacarigua
	El Dorado	035-039	5,222	Caura W/Works, Tacarigua, Valsayn
	Hillview	080	2,140	
	Caura	081	629	Tacarigua Boreholes Caura Waterworks
	SUB TOTAL		21,764	

4. WATER AREA: ARIMA

	Arima Heights	002	1,585	Guanapo, Aripo
WARD: ARIMA	La Laja	006	108	No Supply
	Calvary	003	956	Aripo, Guanapo
	Maturita	001	1,753	Guanapo Waterworks

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Mausica	004	2,999	Hollis, North Oropouche (Mausica Off-Take)
	Olton Road	011	1,259	Hollis
	Malabar	014-017	6,684	North Oropouche
	Santa Rosa Heights	020-021	5,180	North Oropouche
WARD: ARIMA (Continued)	Tumpuna	018	1,448	North Oropouche
	Pinto Road	019	447	Guanapo
	Wallerfield	022	834	Aripo (Via Fort Read Reservoir #2), Guanapo
	Samaroo Village	012	1,126	Hollis
	O'Meara	013	1,576	Hollis/ N. Oropouche
	Arima	001-002 004-006 009-011	5,756	Hollis/ Guanapo
WARD: ARIMA BOROUGH	Calvary	003	1,077	Calvary Tank and Booster Pump Station, Guanapo Waterworks, Aripo Waterworks
	Nettoville	007	1,359	Hollis
	Santa Rosa Gardens	008	701	North Oropouche
	Lawrence Park	012	1,215	Hollis
	Cocorite	013	1,239	Hollis, N. Oropouche
	SUB TOTAL		37,302	

5. WATER AREA: SANGRE GRANDE

ST. ANDREW WARD: VALENCIA	Valencia	001-002	1,273	Valencia Intake (Via Valencia Booster)
	Cumaca	003	120	Cumaca Intake
	Melago	004	211	Cumaca Intake
WARD: MANZANILLA	Valencia	001-002	1,507	Valencia Intake via Valencia Booster

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Turure	003	1,182	Valencia Intake via Valencia Booster
	Guaico	004-005	2,143	
	Sangre Grande	006, 031-035	4,223	Hollis (Via Guaico Booster Pump Station & Tank) and Sangre Grande Reservoir
	Sookram Village	029-030	1,565	
	La Seiva	007-009	3,793	
	El Reposo	014	385	Hollis/ N. Oropouche
WARD: MANZANILLA (Continued)	Oropouche	010	471	Hollis/ N. Oropouche
	Vega De Oropouche	011-012	739	Hollis/ N. Oropouche
	Fishing Pond	013, 015-017	2,058	Hollis/ N. Oropouche
	North Manzanilla	022-025	864	Hollis (Via Guaico Booster Pump Station & Tank) and Sangre Grande Reservoir
	Caigual	020-021	366	Hollis, N. Oropouche via Guaico Booster via S/Grande Reservoir via Caigual Booster
	Manzanilla	026-028	570	Hollis, N. Oropouche
	Brooklyn Settlement	018	469	Hollis, N. Oropouche
	Sangre Chiquito	019	1,060	Hollis, N. Oropouche
	Guaico	001	548	Hollis, Valencia Intake
	Cunaripo	002-004	1,592	Hollis, N. Oropouche
WARD: TAMANA	Cumuto	005-007, 009-010	2,055	Aripo Waterworks
	Gudtapajaro	008	405	No Supply
	Tamana	011-012, 014,019	1,398	Four Roads Tamana Intake
	La Tosca	013	355	

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: TAMANA (Continued)	Coryal	016-018	1,081	No Supply
	Carmichael	015	195	No Supply
	Sangre Grande	024-025 010-012 014	4,688	Hollis, North Oropouche
	Guaico	015-016	1,373	Hollis, Valencia Intake
	Tamana	022	192	Four Roads Tamana Intake
	Four Roads, Tamana	021,023	598	
	Coal Mine	018-019	1,075	Hollis, N. Oropouche
WARD: TURURE	Maraj Hill	017	733	Hollis, N. Oropouche
	Mount Harris	020	326	
	Manzanilla	026-027	383	Hollis, N. Oropouche
	Compano	009	439	
	Plum Road	003-004	506	Plum Road Intake
	Brigand Hill	005-006	437	
	Plum Mitan	007-008	981	Plum Mitan Intake
	Biche	013	167	Biche Waterworks
	Canque	001-002	964	
WARD: SAN RAPHAEL	Four Roads, Tamana	004	143	Four Roads Tamana Intake
	SUB TOTAL		43,633	

6. WATER AREA: WALLERFIELD

WARD: TACARIGUA	Piarco	073-074	1,642	Carapo Offtake from North Oropouche
	Mausica	101-102	943	Arouca Boreholes, North Oropouche (Mausica Offtake)

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: ARIMA	Carapo	009-010	2,082	North Oropouche (Carapo Offtake)
	San Rafael	023	939	North Oropouche (Tumpuna Offtake)
	Mundo Nuevo	001-002	552	North Oropouche
WARD: SAN RAFAEL	Brazil	008-011	2,596	North Oropouche
	Talparo	003 005-007	1,180	North Oropouche (Tumpuna Offtake)
WARD: CUNUPIA	Chin Chin	012-013	2,071	Las Lomas Water Treatment Plant (Old)
	Las Lomas No.1	005,009 010	2,912	North Oropouche (Tumpuna Offtake) Caroni-Arena
	Las Lomas No.2	006-008	2,105	
	Madras	011	881	
	Mon Plasir	014	985	
	SUB TOTAL		18,888	

7. WATER AREA: TOCO

WARD: MATURA	Matura	001-003	1,032	Matura Intake
	Salybia	004	162	Salybia Intake
	Balandra	005	96	
	Rampanalgas	006	223	Tompire Waterworks
WARD: TOCO	Cumana	001-003	491	Cumaca Intake
	Anglais	004-008	733	Toco
	Alandale	009	419	
	Salybia	010	165	Salybia Intake
	Toco	011-013 025-026	1,311	Toco Waterworks
	Pt. Galera	024	241	Toco Waterworks

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: TOCO (Continued)	L'anse Noir	014	145	
	Matelot	021-023	402	Matelot Intake
	St. Helena	020	149	
	Grand Riviere	018-019	371	Grand Riviere Intake
	San Souci	015-016	573	San Souci Intake, (Toco Tank, Cumana Res.)
	Monte Video	017	168	Monte Video Intake
	SUB TOTAL		6,681	

8 CARONI

8.1 WATER AREA: CARONI

WARD: TACARIGUA	La Paille Village	069	783	Tacarigua/ Caroni-Arena
	Kelly 1	072	981	Caroni-Arena/North Oropouche
	Jumbie Piece	070-071	1,190	
WARD: CUNUPIA	Caroni 2 Settlement	001	694	Caroni-Arena(Frederick Settlement Offtake)
	Caroni Village	002	820	Caroni-Arena (Offtake at Old Booster)
	Kelly 2	003	1,101	Caroni-Arena
	St. Helena	004	1,121	Caroni-Arena, Las Lomas (New Plant, Offtake at Southern Main Road)
	SUB TOTAL		6,690	

8.2 WATER AREA: CUNUPIA

WARD: CUNUPIA	Warren	015-016 018	3,247	Caroni-Arena (Railway Road Offtake)
	Bejucal	019	868	Caroni-Arena
	Monroe Road	017	788	Caroni-Arena

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Mamoral No.1	040	343	Carlsen Field #5
	Mamoral No.2	041	286	
	Caparo	037,042	991	Carlsen Field #5
	Todds Road	035-036 038-039 043	2,424	Carlsen Field #5
	Palmiste	044	1,114	Carlsen Field #5
	Ravine Sable	033-034	786	No WASA Supply
WARD: CHAGUANAS	Longdenville	029-030 032,045	4,548	Caroni-Arena (9" Offtake)
	Montorose	028 046-048	3,601	Caroni-Arena (9" Offtake)
	Enterprise	008,031 025-027	9,338	Caroni-Arena (12" Offtake)
	Endeavour	022-023	2,125	Caroni-Arena (12" Offtake)
	Lendore Village	024	1,846	Caroni-Arena
	Lange Park	049	2,492	Caroni-Arena
	Monroe Road	003-005	2,661	Caroni-Arena
	Jerningham	009-010	1,880	Caroni-Arena
	Welcome Village	006	352	Caroni-Arena
	Ragoonanan Road	007	996	Caroni-Arena
	Flanagin Town	021-023	925	Freeport (Via Chimbo-razo System)
WARD: MONTSERRAT	Caparo	010,011	983	No WASA Supply
	Mamoral No.1	012	314	Carlsen Field #5
	Mamoral No.2	013	234	Carlsen Field #5
	SUB TOTAL		43,142	

8.3 WATER AREA: CHAGUANAS

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Felicity	013 017-019	3,241	Caroni-Arena (12" Main)
	Cancandee	014-016	2,406	Caroni-Arena
	Charlie Village	001-002 011-012 020-021	5,456	Caroni-Arena (12" Main)
	Chaguanas	050-051 070-075	6,177	Caroni-Arena (12" Offtake)
WARD: CHAGUANAS	Carapichaima	065-066	1,404	Caroni-Arena
	Waterloo	067-069	2,074	Caroni-Arena
	Chandernagore	053-054	1,867	Caroni-Arena
	Edinburgh	052	1,071	Caroni-Arena
	Orange Field	056,059	3,168	Carlsen Field (Via Arena System)
	Carlsen Field	055	1,766	Carlsen Field
	Chase Village	057-058	2,167	Carlsen Field (Via Arena System)
	Freeport	060-063	2,236	Freeport Waterworks (Via San Fernando System)
	Bank Village	064	1,054	Carlsen Field (Via Arena System)
	Carapichaima	001	1,042	Caroni-Arena (Small Offtake)
	Waterloo	002	647	Caroni-Arena (Small Offtake)
WARD: COUVA	Orange Valley	003-004	1,595	
	Calcutta No.1	011-013	3,177	Freeport (Via San Fernando System)
	Calcutta No.2	009	764	
	Freeport	008	1,177	Freeport (Via San Fernando System)
	McBean	010	1,017	Caroni-Arena

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: MONTSERRAT	Freeport	001-002 006-009	5,025	Freeport Waterworks (Via San F'do System)
	Chickland	004-005	909	Freeport Waterworks (Via San F'do System)
	Calcutta No.1	003	956	Caroni-Arena
	SUB TOTAL		50,396	

8.4 WATER AREA: COUVA

	Perseverance	005-007	2,377	Caroni-Arena
	Exchange	016	334	Caroni-Arena (18" Offtake)
	Couva	039-043	3,572	Caroni-Arena
	Balmain	014-015	1,258	Caroni-Arena (Basta Hall)
	Rivulet	017,025 037	1,428	Caroni-Arena (Basta Hall)
	California	018-021	2,407	Caroni-Arena
	Forres Park	027-030	2,863	Caroni-Arena (Basta Hall Tank)
WARD: COUVA	Phoenix Park	034-035	1,024	Caroni-Arena (Basta Hall Tank)
	Windsor Park	036	602	Caroni-Arena (Basta Hall Tank)
	Claxton Bay	031-032	2,197	Caroni-Arena
	Dow Village	022-023 033	4,209	Caroni-Arena
	Oplay	024,038	1,130	Caroni-Arena (Basta Hall Tank)
	Indian Trail	026	661	Freeport (Via Chimbo-razo System)
WARD: MONTSERRAT	Preysal	033-035	2,776	Freeport (Via Chimbo-razo System)

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: MONTSERRAT (Continued)	Balmain	031-032	1,266	Caroni-Arena (Via Basta Hall Tank)
	Indian Trail	030	275	
	Tortuga	027-028	934	
	Pepper Village	025-026	750	Freeport (Via Chimborazo System)
	Gordon Village	029	494	
	Brasso Venado	020	277	No WASA Supply
	La Vega	024	304	Freeport (Via Chimborazo System)
	Tabaquite	015-018	2,322	Navet Waterworks (Via 4"Offtake at Tabaquite)
	Brasso	014	321	Freeport (Via Chimborazo System)
	Emmanuel Junction	019	376	No WASA Supply
WARD: POINTE-A-PIERRE	Claxton Bay	001	1,056	Caroni-Arena
	St.Margaret's Village	007-008	1,761	Caroni-Arena
	Union Village	005-006	2,222	Caroni-Arena
	Macaulay	004,011	1,865	Caroni-Arena
	Cedar Hill	002-003	1,935	Caroni-Arena
	Tortuga	012	493	Freeport (Via Chimborazo System)
	Hermitage	023	514	Caroni-Arena
	Parforce	020	1,196	Navet Waterworks (Via Gasparillo Booster)
	San Fabien	021	410	
	Forest Park	022	558	
	Texaco Res. Area	041-043	863	Private Supply
	Plaisance Village	009-010 044	3,426	Caroni-Arena/Navet
	SUB TOTAL		50,456	

9. WATER AREA: MAYARO

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: GUAYAGUAYARE	Mayaro	013-018	2,684	Mayaro Waterworks
	Guayaguayare	009-012	1,477	Guayaguayare
	Ortoire	001	490	Mayaro Waterworks
	St. Joseph Village	002-003	325	Mayaro Waterworks
	Radix	004-005	973	Amoco
	Grand Lagoon	006-007	873	Amoco
	La Savanne	008	598	Amoco
WARD: TRINITY	Abyssina	001-002	344	No Supply
	Main Field	003-004	125	No Supply
WARD: COCAL	Mafeking	014-015	1,099	Mayaro Waterworks
	Ortoire	016-017	366	Mayaro Waterworks
	SUB TOTAL		9,354	

10. RIO CLARO

10.1 WATER AREA: ARCH TRACE

WARD: COCAL	Charuma Village	001-002	598	Swamp - No Supply
	Cushe Village	003	521	Forest - No Supply
	Biche	004-005	966	Biche Waterworks Navet Waterworks
	Poole Valley	006	318	Navet Waterworks (Via TCO Booster)
	Ecclesville	007-009	1,706	Navet Waterworks (Via TCO Booster)
	Clear Water	010	521	Navet Waterworks (Via TCO Booster)
	Deep Ravine	011	612	Navet Waterworks (Via TCO Booster)
	Union	012-013	1,329	No Water Mains

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: COCAL (Continued)	Rio Claro	018-019	1,348	Navet Waterworks (Via TCO Booster)
	Navet Village	020-021	960	Forest - No Supply
	Charuma Village	003 018-019	962	Navet Waterworks (Tabaquite Offtake 12")
	Dades Trace	012-013	1,902	Navet Waterworks (Via TCO Booster)
	San Pedro	004	761	Navet Waterworks (Via TCO Booster)
	Brothers Road	001-002 022	1,708	Navet Waterworks (Tabaquite Offtake 12") TCO Booster
WARD: CHARUMA	Cushe Village	016-017	666	Navet Waterworks (Via TCO Booster)
	Navet Village	014-015	1,133	Navet Waterworks (Via TCO Booster)
	Poole	005-007	1,829	Navet Waterworks (Via TCO Booster)
	Poole Village	009	400	
	Libertville	008 010-011	2,215	Navet Waterworks (Via TCO Booster)
	Rio Claro	020-021	1,074	Navet Waterworks (Via TCO Booster)
WARD: POINTE-A-PIERRE	Mayo	013-015	1,717	Morichal Spring
	Ecckles Village	027	492	Navet Waterworks
	Corosal	028	534	
	Esmeralda	030	664	Guaracara Spring
	Guaracara	031	580	
	Piparo	032-033	1,524	Navet Waterworks
WARD: ORTOIRE	Tableland	001-003 006-007	2,713	Navet Waterworks
	Robert Village	004	717	
	George Village	005	735	

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: ORTOIRE (Continued)	Torrib Trace	008,011	1,776	Navet Waterworks
	Watts Road	009-010	557	Navet Waterworks
	New Grant	026-028	2,198	Navet Waterworks
	Sister's Road	029-030	1,076	Navet Waterworks
	Piparo	031	554	Navet Waterworks
WARD: SAVANNA GRANDE	Brothers Settlement	032-035	2,257	Navet Waterworks
	Ben Lomond	038	1,433	Navet Waterworks
	Kumar Village	040	913	
	Garth Road	041-043	2,914	Navet Waterworks
	Ecckles Village	037,057	1,035	Navet Waterworks
	SUB TOTAL		45,918	

10.2 WATER AREA: PRINCES TOWN

	Borde Narve	034-035	1,290	Navet Waterworks
WARD: NAPARIMA	Manahambre	022	934	Navet Waterworks
	Mt. Stuart	019-020	1,285	Navet Waterworks
	Iere Village	021	860	Navet Waterworks
	St. Mary's	003-004	604	Navet Waterworks
	Rock River	005-007	1,287	Navet Waterworks
WARD: MORUGA	La Lune	014-017	1,026	Navet Waterworks
	Basseterre	008-012	2,192	Navet Waterworks
	Moruga Village	019-020	669	Navet Waterworks
	Mondoe	013	10	Navet Waterworks
	Hindustan	012	847	Navet Waterworks
WARD: ORTOIRE	Indian Walk	013,015 016,018	2,620	Navet Waterworks
	Fifth Company Village	014,019	1,121	Navet Waterworks

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: ORTOIRE (Continued)	New Grant	017	876	Navet Waterworks
	St. Mary's	020-022	1,853	Navet Waterworks
	Princes Town	047-056	8,444	Navet Waterworks
	Indian Walk	018-019	1,233	Navet Waterworks
	Lengua	003, 015-017	3,049	Navet Waterworks
	Craignish	022-023	1,510	Navet Waterworks
	St. Julien	024	735	Navet Waterworks
	Petit Cafe	020-021, 025	1,749	Navet Waterworks
WARD: SAVANNA GRANDE	Iere Village	044	684	Navet Waterworks
	Lothian	001-002	1,513	Navet Waterworks
	Buen Intento	036	744	Navet Waterworks
	Cumuto Village	005,008	1,598	Navet Waterworks
	St. Croix	004,006	1,603	Navet Waterworks
	St. Mary's	011-013	2,088	Navet Waterworks
	Fifth Company	014	949	Navet Waterworks
	SUB TOTAL		43,373	

10.3 WATER AREA: BARRACKPORE

	Digity	080-081	1,644	Navet Waterworks
	Cottage	040-041	1,199	Navet Waterworks
WARD: NAPARIMA	Wellington	043-044	1,005	Navet Waterworks
	Barrackpore	036,037, 039,042	3,283	Navet Waterworks
	Congo Hill	038	759	Navet Waterworks
WARD: MORUGA	Barrackpore	001-002	2,039	Navet Waterworks
	Marac	018	316	Navet Waterworks

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: SAVANNA G'DE	Barrackpore	009-010 007	2,606	Navet Waterworks
	Penal	001-003 009-015 022-025 029 093-097	15,781	Penal Waterworks Navet Waterworks
	Rock Road	020-021	1,573	
	Tulsa Village	028	910	Penal Waterworks
WARD: SIPARIA	Batchyia Village	026-027	1,870	Penal Waterworks
	Barrackpore	004-007	3,163	Navet Waterworks
	Plantinite Village	008	897	Navet Waterworks
	Morne Diablo	016-018	2,029	Navet Waterworks
	Scott Road	019	676	Navet Waterworks
	Massahood	054	599	Caroni-Arena
	San Francique	055-060	3,765	Caroni-Arena
	SUB TOTAL		44,114	

10.4 WATER AREA: FYZABAD

	Duncan Village	057-061	4,880	Caroni-Arena
	La Romain	063,067 069,075 071-073	6,907	Caroni-Arena
	Concord	068	1,112	Caroni-Arena
WARD: NAPARIMA	La Fortune	070	826	Caroni-Arena
	Pone Trace	074	553	Caroni-Arena
	Bamboo Village	062	2,942	Caroni-Arena
	Woodland	064-066	1,703	Caroni-Arena
	Hermitage	046-048	2,383	Caroni-Arena
	Monkey Town	045,054	1,261	Navet Waterworks

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Monkey Town	052	747	Navet Waterworks
	Debe	076,078 079,088 089-091	5,651	Navet Waterworks Caroni-Arena
WARD: NAPARIMA (Continued)	Rami Trace	077	763	Navet Waterworks
	Philippine Village	049	761	Caroni-Arena
	Diamond	050-051 053	2,721	Navet Waterworks
	Dow Village	083	1,313	Caroni-Arena
	Avocat	061-063	2,069	Caroni-Arena
	South Oropouche	066	954	Caroni-Arena
	St. John's Village	065	661	Caroni-Arena
	St. Mary's Village	067	958	Caroni-Arena
WARD: SIPARIA	Harris Village	064 068-069	2,090	Caroni-Arena
	Delhi Settlement	074-079	3,641	Fyzabad Waterworks
	Mondesir	080-082	1,646	Caroni-Arena
	Pepper Village	070-073	2,629	Caroni-Arena
	Forest	092	262	Fyzabad Waterworks
	Fyzabad	098-100	1,573	Fyzabad Waterworks
	Hickling Village	053	578	Fyzabad Waterworks
	SUB TOTAL		51,584	

10.5 WATER AREA: PALMYRA

	Poonah	016	826	Morichal Springs
WARD: POINTE-A-PIERRE	Bonne Aventure	017-019 026	2,920	Navet Waterworks
	Cocoa Piece	024	808	Navet Waterworks
	Mahogany	025	670	Navet Waterworks

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: POINTE-A-PIERRE (Continued)	Gasparillo	034,035 037-039	4,987	Navet Waterworks
	Lumsden	036	1,531	Navet Waterworks
	Ragoobar Lands	040	1,333	Navet Waterworks
WARD: NAPARIMA	Harmony Hall	001	250	Navet Waterworks
	St. Madeline	013,014 026	2,117	Navet Waterworks
	Cocoyea	008,010 011	3,936	Navet Waterworks
	Pleasantville	009	1,659	Caroni-Arena
	Corinth	012 015-017	3,579	Navet Waterworks
	Palmyra	018	1,298	Navet Waterworks
	Golconda	055	1,370	Navet Waterworks
	Victoria Village	056	890	Navet Waterworks
	St. John's	029 032-033	1,650	Navet Waterworks
	Cedar Hill	023	934	Navet Waterworks
	Jordan Hill	024-025	1,899	Navet Waterworks
	St. Charles	028	974	Navet Waterworks
	Petit Morne	027	832	Navet Waterworks
	Friendship	030-031	1,939	Navet Waterworks
WARD: SAVANNA GRANDE	Mt. Stuart	045	800	Navet Waterworks
	Reform	039	952	Navet Waterworks
	Harmony Hall	046	792	Navet Waterworks
	SUB TOTAL		38,946	

10.6 WATER AREA: MARABELLA

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD: NAPARIMA	Marabella	006,082 083,085 092,093	8,662	Caroni-Arena Navet Waterworks
	Union Village	002,003	1,883	
	Battoo New Dev.	007	1,411	
	Battoo Ave.	084	1,221	
	Ramdass St.	086	1,603	
	Gopaul Lands	087	1,514	
	Tarouba	004,005	1,647	Caroni-Arena
	SUB TOTAL		17,941	

11. WATER AREA: SAN FERNANDO

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
BOROUGH OF SAN FERNANDO	Vistabella	003-008 012-016	8,007	Navet Waterworks
	Paradise	034-039	3,754	Navet Waterworks
	San Fernando Proper	009-011 032-033	1,601	Navet Waterworks
	St. Joseph Village	017-019	1,705	Navet Waterworks
	Mon Repos	020-021 026-028	3,359	Navet Waterworks
	Pleasantville	022-023 046	5,889	Caroni-Arena
	Les Efforts West	024-025	1,115	Navet Waterworks
	Upper Lower Hillside/ Coffee	029-031	2,225	Navet Waterworks
	Les Efforts East	041-045	4,650	Navet Waterworks
	Broadway	040,047	1,090	Navet Waterworks
	SUB TOTAL		33,395	

12. WATER AREA: SIPARIA/ERIN

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Charlo Village	030-033	3,135	Penal Waterworks
	Syne Village	040-042 084	2,283	Penal Waterworks Siparia (Coora) W/Works
	Siparia	037-038 043 085-090	5,918	Penal Waterworks Siparia (Coora) W/Works
	Mendez Village	034-035	940	Siparia (Coora) W/Works
	Quinam	036	7	Penal Waterworks
	Guapo	052	689	Fyzabad Waterworks
WARD: SIPARIA	Saltmine	050	939	Siparia (Coora) W/Works
	Thick Village	051	940	Siparia (Coora) W/Works Fyzabad Waterworks
	Apex	091	209	Fyzabad Waterworks
	Sudama Village	047	688	No Water Mains
	Sudama Village	048	536	No Water Mains
	Quarry Village	044-046 049	2,317	Siparia (Coora) W/Works
	De Gannes Village	039	551	Penal Waterworks
	Los Charos	007,008	609	Carapal Waterworks
	Los Charos	012	573	Carapal Waterworks
	Sobo Village	009-011	1,628	Carapal Waterworks
WARD: ERIN	Los Bajos	013-015	2,057	Carapal Waterworks
	Dally Village	016	793	Siparia (Coora) W/Works
	Santa Flora	017,019	878	Siparia (Coora) W/Works
	Waddle Village	018	791	Siparia (Coora) W/Works
	La Union	001	604	Carapal Waterworks
	Los Iros	002	643	Carapal Waterworks
	Arena	003	537	Carapal Waterworks
	Carapal	004-006	1,291	Carapal Waterworks

	SUB TOTAL		29,556	

13. WATER AREA: POINT FORTIN

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
WARD:ERIN	Buenos Ayres	020,021	384	Cap-de-Ville W/Works
	Perseverance	016,017	675	Granville Waterworks
	Constance	018-019	947	Granville Waterworks
	Icacos	020	296	Granville Waterworks
	Coromondel	009,013	677	Granville Waterworks
	Bamboo Village	014	527	Granville Waterworks
WARD: CEDROS	Iros Forest	005	571	Chatham Waterworks
	Chatham	006-008	916	Chatham Waterworks
	Point Coco	010	341	Chatham Waterworks
	Granville	011,012	894	Granville
	Cap-de-Ville	002-004	1,564	Cap-de-Ville W/Works Chatham Waterworks
	Porto Grande	001	152	No Water Mains
	Bonas, St. Marie	021	617	Granville Waterworks
	St. Marie	022	709	Granville Waterworks
	Bois Bourg	015	434	Granville Waterworks
WARD: LA BREA	Fanny Village	007-013	4,589	Cap-de-Ville W/Works Chatham Waterworks
	New Village	003-006	2,079	
	Point Ligoure	014,015	1,494	
	Point Fortin	055-064	6,738	Chatham
	Gonzales	019 021-023	2,028	Point Fortin Waterworks
	Egypt Village	016	1,459	Cap-de-Ville W/Works Chatham Waterworks
	Parry Lands	017,018	1,006	Point Fortin Waterworks

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Cochrane	024-026	814	Point Fortin Waterworks
	Cap-de-Ville	002	218	Chatham via Cap-de-Ville Tank
	Lot Ten	020	386	
	Mondesir	039,040	1,218	Caroni-Arena
	La Brea	043-047	1,490	Caroni-Arena
	New Lands	048,049	1,029	Caroni-Arena
	Corbeau Town	050	496	Caroni-Arena
WARD: LA BREA (Continued)	Coffee Vilage	051	379	Caroni-Arena
	Majuba	052	436	Caroni-Arena
	Sobo Village	033-035	1,540	Caroni-Arena (Via Boodoosingh Booster)
	Chinese Village	037	504	Caroni-Arena
	Vance River	027-029	1,037	Point Fortin Waterworks
	Vessigny	030-032	1,258	Caroni-Arena (Via Boodoosingh Booster)
	Rousillac	036,038 041,042	4,179	Caroni-Arena
	Forest Reserve	053,054	345	Private Water Supply
	Geerahoo	065	293	No Water Supply/Trintoc
	SUB TOTAL		44,719	

14. WATER AREA: NORTH COAST

	La Fillette	004-005	375	No Water Supply
	Las Cuevas	009	402	Las Cuevas Intake
WARD: BLANCHI-SSEUSE	Brasso Seco	001-002	324	Brasso Seco Paria Intake
	Blanchisseuse	003 006-008	605	Blanchisseuse W/Works Blanchisseuse Intake
	SUB TOTAL		1,706	

15. TOBAGO

15.1 WATER AREA: LEEWARD SECTION

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
ST. GEORGE	John Dial	001	271	Green Hill/Hillsborough
	Hope	002	537	Green Hill/Hillsborough
	Mt. St. George	003,004	754	Green Hill/Hillsborough
	Windsor	005	291	Green Hill/Hillsborough
	Hillsborough	006	368	Hillsborough
	Mason Hall	007-009	1,292	Craig Hall
	Concordia	010	1,067	Hillsborough
ST. ANDREW	Scarborough	021-025	1,384	Green Hill/Hillsborough
	Darel Spring	011-012	1,826	Hillsborough/Green Hill
	Rockly Vale	013	717	Green Hill/Hillsborough
	Calder Hall	014	419	Hillsborough
	Cinamon Hill	017	560	Hillsborough
	Friendship	018	900	Courland Water Works
	Bacolet	019	169	Green Hill/Hillsborough
	Mt. Marie/Mt. Pellier	020	114	Green Hill/Hillsborough
	Mt. Gomery	003	656	Courland Water Works
	Auchenskeoch	004	341	Courland Water Works
	Amity Hope	005	498	Hillsborough
	Signal Hill	006,007	924	Courland Water Works
	Sherwood Park	008	302	Courland Water Works
	Milford	009	456	Green Hill/Hillsborough
	Lambeau	010	631	Green Hill/Hillsborough
	Harmony Hall	015	512	Hillsborough
	Providence	016	526	Hillsborough

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
	Crown Point	001	591	Courland Water Works
	Canaan/Bon Accord	003	1,042	Courland Water Works
	Tyson Hall	002	941	Courland Water Works
	Golden Grove	004	703	Courland Water Works
	Hamden/Low Lands	005	433	Courland Water Works
	Mt. Pleasant	006	947	Courland Water Works
ST. PATRICK	Buccoo	007	656	Courland Water Works
	Mt. Irvine	008	378	Courland Water Works
	Black Rock	009	688	Courland Water Works
	Orange Hill	010	191	Hillsborough
	Montgomery	011	428	Courland Water Works
	Bethel	012	642	Courland Water Works
	Bethlehem	013	219	Courland Water Works
	Mason Hall	020	336	Craig Hall Intake
	Whim	001	238	Hillsborough
	Plymouth	002,003 018,019	1,560	Courland Water Works
	Arnos Vale	004-006	972	Courland Water Works
ST. DAVID	Culloden	007	264	Craig Hall Intake
	Golden Lane	008	442	Craig Hall Intake
	Woodlands	009,013	618	Craig Hall Intake
	Moriah	010-012	881	Craig Hall Intake
	Runnymede	014	314	Craig Hall Intake
	Castara	015,016	463	Castara Intake
	Les Coteaux	017	318	Craig Hall Intake
	SUB TOTAL		29,780	

15.2 WATER AREA: WINDWARD SECTION

COUNTY/WARD	TOWN/VILLAGE	C.S.O. ED	POP'LN CENSUS 1980	SOURCES OF SUPPLY
ST. MARY	Goodwood	001	208	Richmond T./Plant
	Pembroke	002-005	1,545	Richmond T./Plant
	Glacmorgan	006	307	Richmond T./Plant
	Belle Garden	007	231	Richmond T./Plant
ST. PAUL	Belle Garden	001,014	865	Richmond T./Plant
	Zion Hill Village	015	410	Richmond T./Plant
	Roxborough	012,013	1,057	King's Bay/Richmond TP
	Kendal	003	22	Richmond T. Plant
	Bamboo Village	004	197	Richmond T. Plant
	Argyle	002	399	Richmond T. Plant
	Betsy Hope	005	309	King's Bay T. Plant
	Louis D'or	006	400	King's Bay T. Plant
	Delaford	007-011	978	King's Bay T. Plant
ST. JOHN	Parlatuvier	001,002	283	Parlatovier Intake
	Bloody Bay	003	100	Bloody Bay Intake
	L'anse Fourmi	004	222	L'anse Fourmi Intake
	Hermitage	005	277	Charlotteville Intake
	Charlotteville	010-012	911	Charlotteville Intake
	Aconza	007	329	
	Speyside	006,008	414	King's Bay T./Plant
	Lucy Vale	009	280	King's Bay T./Plant
	SUB TOTAL		9,744	