The water quality analysis considered twelve (12) parameters and was performed in accordance with the Philippine Standard Method for Analysis of Air and Water.

(3) Results of Water Quality Analysis

9.

Table 7.5.2 summarizes the results of analysis (refer to MWSS Central Laboratory Examination Results, 7.5 Data Report). Flow rates of Abra and Santa Maria rivers at the time of sampling were about 102 and 44m³/sec, respectively. The measured flow of Sta. Maria river was close to the its maximum recorded flow rate, while Abra river was flowing between its minimum and average discharges.

Table 7.5.2 Water Quality Analysis Results

Indices	Unit	Class "A" Water Quality	Riv	er	Remarks
		Criteria for Fresh Surface Water	Abra	Sta. Maria	
Color	units	50	10.00	5.00	within standard
Turbidity	units	- 1	33.00	29.00	
Conductivity	us/cm		220.00	590.00	
Н		6.5-8.5	8.05	8.00	within standard
· · · · · · · · · · · · · · · · · · ·	·				
Alkalinity	mg/L		82.00	232.00	
Total Hardness as CaCO ₃	mg/L	400	90.00	208.00	within standard
Sulfate (SO ₄)	mg/L	200	27.00	79.00	within standard
Chloride (CI)	mg/L	200	4,40	8.70	within standard
Iron (Fe)	mg/L	1.0	0.60	1.00	within standard
Manganese (Mn)	mg/L	0.5	0.04	0.03	within standard
Ammonia-Nitrogen	mg/L		0.88	0.95	
BOD	mg/L_	5	74.08	111.10	excessive

The river water from the Abra and Santa Maria rivers basically meet the parameters for Class "A" fresh surface water. However, the computed Biochemical Oxygen Demand (BOD: assumed conversion rate is BOD/COD =1/2) of the rivers exceeds the criteria for the same surface water classification. High BOD is assumed to be caused by presence of organic suspended solids, such as plants, trees and eroded surface soil.

7.6 Future Development Potential of Water Sources

The questionnaires collected from each municipalities show that there are 31,056 wells existing in the province, while 668 wells are recorded in the inventory made by NWRB (Sec Tables 7.11 and 7.3.1, Data Report). Despite the smaller number of wells included in NWRB data, they were used in the analysis since technical information are provided. Of the total 668 wells, 419 have complete information; depth, static water level and specific capacity; and are summarized in Table 7.6.1.

Table 7.6.1 Well Sources Information*

Municipality	Type	Namber	Ave.	Depth (m) Range		Ave.	SWL (m) Range		Ave	p. Cap. (Vsec/m Range	
dden	SW	2	16.70	15.20 -	18.20	11.45	10.70 -	12 20	1.00		i
	DW	40	41.00	35.00 -	45.00	12.00	11.00 -	13.00	0 20		<u>;</u>
lanayoyo	SW.	ı	16.77	16.77 -	16.77	1.52	1.52 -	1.52	1.03	1.03 -	1
	ĐW	2	21.30	20.10 -	22.50	10 68	9.76 -	11.60	0.18	0.15 -	Ö
autay	SW	20	13,43	8.50 -	19.80	4.86	2.74 -	9.76	0.85	0.39 -	2
	ĐW	6	40.39	21.95 -	100.00	6.60	2.74 -	13.70	0.73	0.08 -	2
स्कट्टर	SW	2	15.25	13.72 -	16.77	5.64	4.57	6.71	1.55	1.03 -	2
	ĐW	3	24.58	21.34 •	30.49	7.63	3.05 -	10.70	0.21	021 -	0
ahugae	SW	i	12 20	12 20 -	12 20	2.41	2.41 -	2.41	0.69	0.69 -	0
	DW	8	31.27	21,34 -	46.00	7.78	4 27 -	12.80	0.37	0.01 -	2
'andon	SW	£4	11.12	3.05 -	16.77	2.42	0.00 -	4.57	0.99	021 -	
	DW	3	27.81	25.00 -	31.60	8.14	6.10 -	10.70	31.0	0.03 -	0
`aoyan	SW	19	9.30	5.50 -	18.30	2.70	1.22 -	4.30	1.06	0.29	2
	DW	2	38.40	22.00 -	54.80	3.79	3.00 -	4.57	0.66	0.63 -	
ervantes	SW'	***									·
	DW	***									
ahmuyod	SW'	••	11.63	14.02 -	15.24	6.10	4.88 -	7.32	0.51	0.20	
	DW		41.00	35.00 -	45.00	12.00	11.00 -	13.00	0.20	0.20	{
iregorio del Pilar	SW	-:	17.00	15.00 -	18.00	11.00	10.00 -	12.00	1.00	1.00 -	!
·	DW		41.00	35.00 -	45.00	12.00	11.00	13.00	0.20	020 -	
àitidda -	\$W	** *	15.86	11.89 -	19.82	5.95	5.79 -	6.10	0.66	0.34 -	6
	DW COV	-	41.00	35.00 -	45.00	12.00	11.00	13.00	0.20	0 20 -	
lagsingal	SW.		17.37	14.60 -	19.82	6.64	2.74	14.60	0.93	0.08	
and the state of t	DW SW	4	25.84	23.17 -	28.96	6.63	6.10 -	1.32	0.07	0.03	!
agbukel		32	11 23	6.71 -	19.51	3.40	1.22 -	12 20	0.76	0.10 -	
·	DW.	***	35.19	28.00 -	50.30	7.93	3.66 -	10.67	O.IB	0.03 -	
arvocun	SW.	***									
uirino	SW	***								 	
UI(IB)	DW DW										
afcedo	SW		14.63	[4.63 -	14.63	11.28	11.28 -	11.28	1.03	1.03 -	
sitedo	DW	1	21.55	23.48 -	25.61	13.87	12.80 -	14.94	0.38	0.34 -	- {
an Emitio	SW	•••	17.00	15.00 -	18.00	11.00	10.00	12.00	1.00	1.00 -	
an Labino	DW	••	41.00	35.00	45.00	12.00	11.00 -	13.00	0.20		- 1
an Esteban	SW	12	13.76	8.54 -	18.60	3,43	1.22 -	7.32	1.27	0.52	
an L-SICCON	DW	† -	21.95	21.95	21.95	3.05	3.05	105	0.52	0.52	•
an Hidefonso	SW	8	13.44	11.58	17.38	3.39	1.80 -	5.18	1.56		
an elocronso	DW		27.44	27.44 -	27.44	7.62	7.62 -	7.62	0.50		
an Juan	5W	1	11.27	3.90 -	18.29	3.74	0.91 -	7.62	0.90		
an Flian	DW	11	25.78	21.30 -	32.01	4.81	3.05 -	8.23	1.21	0.09	1, 1
an Vicente	SW	15	9.38	5.18	11.63	2.33	0.00 -	3,40	0.95	0.41	
an vicene	DW	4.0	100.00	100.00	100.00	3.00	3.00 -	3.00	0.76		
anta	SW	9		2.74 -	17.68	2.57	0.91 -	7.32	1.34	0.17 •	
THE LA	DW	i B	28.89	20.73	40 24	14.59	4.88 -	24.10	0.84	0.05	
anta Catalina	SW	15		5.49	18.30	2 27	1.20	3.35	1.02		
and Courses	DW			100.00	100.00	3.00	3.00	3.00	0.76	0.76 -	•
anta Craz	SW	28		7.93	18.90	3.70	0.91	7.62	0.90	0.08	7
ama Claz	DW	5		22.80	60.98	5.92	4.27 -	7.32	0.13	0.03 -	<u>.</u>
anta Lucio	SW	13	10.96	5.80	18.29	2.50	0.91 -	9.15	0.66		-
onta Lucto	DW	2		22.80 -	26.50	6.41	3.66 -	9.15	0.58		
anta Maria	SW	15		7.30 -	19.57	3.41	0.00	13.41	1.33	0.13 -	···
annes ettali lä	DW.	6		20.73	132.93	1.98	1.22 -	2.44	0.82	0.08	
antiago	SW	9		6.70	19.87	3.23	2.24	6.10	0.49		
uneago.	DW	1 3	28.79	23.42 -		6.86		12 20	0.59	0.14 -	
anto Domingo	SW	13		6.40 •	34.15 19.82	3,40	0.00	6.71	1.09		
and to minigu	DW	1 2	27.81	20.43 -	32.01	7.82	3.05 -	15.24	1.03		
3030	SW	4.5	17.00	15.00	18.00	11.00	10.00	12.00	1.00		
igay	DW		41.00	35.00	45.00	12 00	11.00	13.00	0.20	·	-
mait	SW	11	13.15	7.62	18.29	3.91	1.83	9.45	0.54		
rissift	DW	 	25.12	21.30	29.50	4.69	1.37 -	7.62	1.52		.
eigpon	5W		17.00	15.00 -	1B.00	11.00	10.00	12.00	1.00		
- Show	DW DW	••	41.00	35.00 -	45.00	12.00	11.00	13.00	0.20		·
alyo	: SW	2.5	17.00	15.00 -	18.0C	11.00	10.00	12.00	1.00		
	DW	1	22.26	22.26 -	22.26	10.06	10.06	10.06	0.36		
agodin	SW	·		6.40 -	18.90	4.41	1.83	11.28	0 92		
-e	DM.	5		20.43 -	36.59	9.27	5.18 -	17.07	0.41		
igun	SW	43		0.00	19.82	3.22	0.61	6.10	1.56		-
	DW	15		20.12 -	100.00	5.01	1.52 -	13.70	1.89		ī
National Total	5W	312		2.74	19.82	1.48		14.60	1.03		
Sovincial Total	DW	107		20.10	132.93	7.74		24.10	0.82	4	
ouice NWRB Well Inviotes: Based on the data from I	entory Databasi Feasibility Stud	e. Iy of WDs, LWI	'A and Di'W	H (Questionable)	···· ; • , ··• ₍₁ , ·			<u> </u>			
Estimated figures from PNo related technical in egond.	i the hydrogeok nformation ava	ogical continuity						e.=Averag	₹		

Considering the well information, the most productive wells are those having depth ranging from 4 to 60 m and from 80 to 140 m. Wells bottoming between 60 and 80 m are notably having low yields. The good yielding wells have static water level varying from 1 to 21mbgl and specific capacity of 0.5 to 12.6 l/sec/m of drawdown.

Based on the hydraulic characteristics and distribution of wells in llocos Sur, good aquifers occur in the Recent sediments that extensively cover the western coastal and alluvial plains from Tagudin to Sinait. The aquifers in the Pliocene to Pleistocene rocks distributed in the northwestern section from Sto. Domingo to Sinait, which are also tapped by some of the wells, are expected to have good to moderate yields. Moderate yielding aquifers are anticipated in the Miocene limestone and the upper fractured portions of the older sediments.

As indicated in Groundwater Investigation of NWRB and water supply improvement studies for Metro Vigan and Tagudin water districts, areas with high salinity problem are concentrated in western coastal area from Candon to Sto. Domingo. These areas are contiguous municipalities that have high population density and have more number of shallow wells. In Tagudin, high fluoride concentration was determined in some wells. The fluoride is probably derived from thermal water. This can be correlated with relatively high water temperature in the wells observed.

As alternative water sources, the untapped springs identified can be developed for future use. These are the most reliable sources of water supply in the area considered as difficult for well development, particularly in San Emilio, Quirino, Gregorio del Pilar and Cervantes. The major faults dissecting the province provide interconnected fractures in the various rock units favorable for spring occurrences.

The detailed hydrogeological characteristics of each municipality are summarized in Table 7.6.2, while individual well locations with technical information are shown in Figure 7.6.1, Data Report. For water supply planning purpose, standard well specifications for each municipality are presented in Table 7.6.3. The design of wells for implementation will be based on the results of detailed investigations that must be made prior to construction.

The depth, static water level and specific capacity specified in Table 7.6.3 are established using the well information from NWRB, pertinent studies from other agencies and the hydrogeological assessment presented in Table 7.6.2. The depth of wells in each municipality is estimated based on the inferred depth of potential aquifers approximated from the available data on existing wells. The static water level and specific capacity are the averages of existing wells employed in the analysis. For municipalities without any well data, the well parameters are made similar to adjoining towns, provided they have similar hydrogeologic features. It should be noted that for municipalities categorized as deep well areas, specifications for shallow wells are indicated since such type of well is still possible for the locality.

Table 7.6.2 Hydrogeological Description by Municipality

							Y.V.L	NOTE GROOM	, Tit	1										540	NATA ATTENDED STATION	Tion
				CPOLOGIC LYTH'S	Į,	}-		,,	N.	WELL INNORMATIONS	1			NO NO MAIN	Į,	1	Og O	SECTION WATTER	HE H	AOTHER	EVERYATED	
MUNICIPALITY	Vide a dio Caor			; } £		1_	DEPTH	į į	{	AVE.	MAX. ((AVE.)	(AVE.)	ž	TAVPED	CNTAPPED	PPED	\ \{\times	AVALABLITY	È	FORMA-	AOUFER	OTHURS
				-	-	I	Ē	· · · ·	SWL	SWL (mbgl)	SP. CAP. (1/s/m)	(l/s/m)	Š,	o	NO.	NO. AVE. Q		(⁶ / _n)		NOT	DEPTH	
		R	Š	N2 3	NJ.	°	N.V.	35	ÀΣ	ÃΩ	SW	.∧Ω		(1/s)	-	(s/s)	ΝS	MΩ	DF		RANGE (mbyl)	
Alilem	เหดบกใดเกดนธ	, ti	С	0	*	0	15-1x	35.45	蕇	21	0.97. 1,03 (1.00)	0.02- 0.30 (0.20)	15		• ,	• .	0	100	0	Alluvium / Miocene sediments	12.40	Potential aquifers can be found in the valley flat of Bakun and Amburayan rivers with capacity of 0,5-1,5 l/s/m. No water quality information. Largely spring area.
Banayayo	undulating to hilly	10	0	70	ន	0	17	20-23	G	Ξ	1.03	0.15- 0.21 (0.1%)	0	O	-	6.0	0	001	¢	Alluvium / Miccene sedunents	2-40	Potential aguiters are expected in the footslope and alluvial plain on the west with estimated capa- city of 1.5-2.5 Us/m. No water quality information.
Bantay	flat to hally	Çx.	0	0 :	01	6 01	9-20 2	22-100	٠.	7	0.39- 2.10 (0.85)	0.08- 2.10 (0.73)	-	18.0			C	8	01	Alluvium	5-60/80-120	Potential aquifer is expected in the broad alluvial plain on the west with estimated capacity of 1.0.2.5 Us/m.
son B	widulating to hilly	01	6	å	\$		14-17	22-31	ç	×	1.03-	0.21	\$1	0.7	-	3.0	. 0	8	0	Alluvium / Miocene sediments	6-40	Potential aquifers are expected in the footslope and alluvial plain of Suria Maria river on the west with estimated capacity of 1.9-1.5 fish. No water quality mfor mation.
Cabugao	flat to hilly	\$	\$	6	c	6	<u>5</u>	22-46	e	3 C	69'0)	0.01- 7.1-2 (0.37)	4	2.2		•	. 0	100	0	Alluvium / Plio-Pleisto cene rocks	3-60	Potential aquiters are expected in the alluvial plan and in the small Pliobastocene hills on the west with estimated capacity of 2,0-2,5 //v/m. No water quality information.
Candon	flac to hilly	3.	Ž.	c .	2	0	3-17	35-33		x .	0.21- 2.97 (0.99)	0.03- 0.40 (0.16)	च		. ,		0	8	¢	Alluvium / Miocene seduments	3-40	Potenual aquiters occur in the footstope and ailuvial plain on the west with estimated capacity of 1.0. 2.5 Us/in, No water quality information.
Caokyan	rhan	<u>ŝ</u>	c	÷		9 0	- : 619	35-52	~	7	9.5% 2.6% (1.0%)	0,63.	C	· c		· · · · · · · · · · · · · · · · · · ·	6	86	0	Alluvium / Pito-Piets- toene rocks	2-50	Potential aquifers are expected in the broad alluvial plain on the western low land with estimated capacity of 2.5 Vsm. No water quality information.
Cervanies	undulating to			5	\$ \$	Ę ·							ç				c	ş	Ĝ.	Alluvium / Miocene sediments	5.40	Limited aquiter can be found in the flood plain of the Alva niver and enclosed valley of Malaya niver with capacity of 0.5-1.0 fs/m. No water quality information, Largely spring stream

Table 7.6.2 Hydrogeological Description by Municipality (Cont'd.)

							MESIAS	SNOWDENDAN	S	,										DAT	DATA INTERPRETATION	NOI
		ا	GEOLOGIC UNITS	500	ATTS	_	100		N. S.	WELL INFORMATIONS	N.			SPRINGS	SS		GROUS	GROUND WATER	}{	AQUIFER	ESTIMATED	
MUNICIPALITY	TOPOGRAPHY	•		કે		_	DEPT	æ	AVE.	esi	MAX ((AVE.)	(VE.)	TAPPED	Н	UNTAPPED) JED	AVAI	AVAILABILITY		FORMA-	AQUIPER	OTHERS
	1	,	_				€ŀ				SP. CAP. (J/s/m)	L.,,,,,,,	NO.	NO. AVE.Q	NO.	AVEO	. 73	(£)	ċ	NOT	DEPTH RANGE (mbvl)	
		×	2	Ž		2	, M.C.	, w	,			5	╢	(c.m.)	+		╬	∦	;			
Galimuyod	Vilid oi gainelubau	v	0	83	**		14-16		٧٥	₫.	0.20- 0.82 (0.51)	0.2-0.21	9	0	- 7	0.2	0	8	0	Alluvium / Miocene sediments	099	Potential aquifers are expected in the flood plain of Candon river valley and in the alluvial fan on the southwest with estimated capacity of 0.5-2.5 Is/m. No water quality information.
. લ્ટા જો <u>ક્ષ</u>	mountainous	٥	0	0	8	<u>-</u>	15-18	35-45	Ξ.	22	1.80 (1.80)	0.20-	19	.3	2	121	0	8	01	Miocene	04-11	Limited aquifer is expected in the Buaya inver and mibutanes valleys and in the fractured and weathered zoot with estimated capacity of 0.5-1.0 Us/m. No water quality information. Largely spring area.
Lididda	undulating to mountainous	٠,	o	22			12-20	35.45	۰	ü	0.34 0.66	0.20	=			0.7	0	8:	0	Alluvium/ Miocene sediments	949	Potential aquifers are expected in the valley flat of Santa Maria river with estimated capacity of 0.5-1.51½/m. No water quality inform- attor. Largely spring area.
Magsingal	flat to billy	8	5	0	8	0	15-20	24-29	-	,	0.08- 2.10 (0.93)	0.03-	٥	0		•	· ·	%	10 1	Alluvium / Plio-Pleisto cene rocks	4-60/80-120	Potential aquifers are expected in the footslope and alluvial plain on the west with estimated capacity of 1.0 to 2.5 l/s/m. No water quality information.
Nagbuke)	undulating to hilly	٥	0	0	<u>8</u>	•	7-20	28.51	•	30	0.10- 4.20 (0.76)	0.03+ 0.30 (0.18)	٠,	0.3	•	9.0	0	81	0	Alluvium / Miocene sediments	7-40	Poennal aquifers occur in the footslope and alluvial plain on the southwest with estimated capacity of 1.0 to 2.5 listin. No water quality information. Largely spring area.
Narvacan	flat to hilly	8	0	0	8	•	7-20	28-51	•		6.16-	0.030	· · · · · · · · · · · · · · · · · · ·	•	•		0	100	0	Alluvium / Miocene sediments	4.40	Potential aquiters are expected in the footslope and broad alluvial plain on the southwest half with estimated capacity of 1.0-2.5 Vs/m. No water quality information.
Quinno	undulating to mountainous	0	0	٥	30	6				•	•		4	1.1	3	2.1	0	98	2	Allavium / Miocene sediments	10-40	Largely spring area, potential aquifers for wells are possible in the valley flat of Abra river with estimated sp.cap of 0.5-1.0 VAm.

Table 7.6.2 Hydrogeological Description by Municipality (Cont'd.)

							EXISTIN	G CONDITIONS	NOLLIC	S										DAT	DATA INTERPRETATION	NOIL
		9.	EOLO	GEOLOGIC UNITS	STIN	Ш			INFOR	WELL INFORMATIONS	SN			SPRINGS	SS		GROU	GROUND WATER		AQUIFER	ESTIMATED	
MUNICIPALITY	TOPOGRAPHY	Ţ	ţ	€	1		DEPT	_	AVE		MAX. ((AVE.)		₹		UNTAPPED	DEED	AVA	AVAILABILITY	È	FORMA-	AQUIFER	отнекѕ
		~	ž	2	ı.	-	SW (m)	D.W.C	SWL (mbgt) SW DW		SP. CAP. (I/s/m) SW DW		o O	AVE. Q. 1	NO.	AVE.Q	жs	% OM OM	OF	NOIT	DEPTH RANGE (mbgi)	
	undulating to mountairous	8	•	ន	8	0	15	24-26	=	<u>‡</u>	1.03-	0.34	15	•		•	0	8	0	Alluvium / Miocene sediments	11-40	Pocential aquifers are expected in the footslope and in the valley flat of Buaya river, particularly on the western portion with estimated capacity of 0.5-2.5 Ve/m. No water quality infore mation. Numerous springs occur in the greater eastern portion.
Sao Emilio	hilly to mountainous	. 0	0	0	8	01 11	15-18	35-45	=	12 1	(1.0)	0.20 0.20 (0.20)	6	•	•	t	0	06	2	Alluvium / Miocene sediments	10-40	Largely spring area, potential aquifers for wells are possible in the valley flort of Barayoc, Dayuosa and Tiagan rivers with estimated sp.cap of 0.5-1.0 l/v/m.
San Esteban	flat to billy	\$0	0	50	0 .	6	61.6	22	6	3	0.52- 2.59 (1.27)	0.52 - 0.52 (0.52)	0	0		• 1	0	901		Alluvium / Miocene sediments	440	Potential aquifers are expected in the footstope and broad alluvial plain on the north with estimated capacity of 2.5 Vs/m. No water quality information.
San Idelfonso	ilat	8	0	0	0		35051	8		*	0.47. 2.53 (1.16)	0.52- 0.52 (0.52)		0	•	,	0	8	0	Alluvium / Pito-Pleis- tocene rocks	3-40/80-120	Potential aquifers are expected in the footslope and alluvial plain on the west with estimated capacity of 1.0-2.5 Vs/m for the two aquifer, respectively. No water quality information.
	flat to billy	55	\$	0	0	4	4 to 2	22-33	4	· · ·	0.21- 2.53 (0.90)	0.09- 4.20 (1.21)	. 11	9.6	PF ₂	4.0	٥	8	0	Alluvium / Plio-Pleisto cene rocks	4-40/80-120	potential aquifers are expected in the footslope and alluvial plain on the west with estimated capa- city of 2.0-2.5 Vs/m for the two inferred aquifer. No water quality information.
San Vicence	flar	8	0	0		•	6-15	8	и	۳.	0.41- 1.74 (0.95).	0.76- 0.76- (0.76)	0	0	•	,	0	061	0	Alluvium / Pito-Pleis- troene rocks	2-60	Potential aquifers are expected in the alliuvial plain and tidal that with estimated capacity of 2.5 l/s/m. No water quality informa- tion.
	flat to mountainous	20	0	0		Š.	3-18 2	14-12	er,	<u>~</u>	2.10	0.05- 2.10 (0.84)		35	· · · · · · · · · · · · · · · · · · ·	0.5	. 0	20	50	Alluvium	4-60/80-120	Potential aquifers are expected in the footslope and alluvial plain on the west with estimated capacity of 1.0 and 2.5 Us/m for the two aquifer, respectively. No water quality information.





Table 7.6.2 Hydrogeological Description by Municipality (Cont'd.)

			<u> </u>	2	<u> </u>	ן	2 g	ا ہے ا	3 5	e i e	<u> </u>
viton		OTHERS		Potential aquifers are expected in the alluvial plain and tidal flat with estimated capacity of 2.5 UVm. No water quality inform- attor.	Potential aquifers occur in the footstope and alluvial plain on the west with approximate capacity of 1.0-2.5 Us/m. No water quality information.	Potential aquifers are expected in the footstope and alluvial plain on the western and southern portion with estimated capacity of 1,0-2,5 l/s/m. No water quality information.	Potential aquifers are expected in the broad alluvial plain and fooslope with estimated capacity of 1.0-2.5 Vs/m. No water quality information.	Potential aquifers are limited in the narrow plain and footslope on the west with estimated capacity of 1.0-2.5 Us/m. No water quality information.	Potential aquifers are expected in the broad alluvial plain and footslope with estimated capacity of 1.0-2.0 Us/m. No water quality information.	Largely spring area, potential aquifers for wells are possible in the valley flat of Paduguit river and in the enclosed valley in Tameang with sp.cap of approxi- mately 0.5-1.0 Vvm.	Potential aquifers are expected in the alluvial plain and in the small Plio-Pleistocene hills with esti-mated capacity of 2.0-2.5 Vs/m. No water quality information.
DATA INTERPRETATION	ESTIMATED	AQUIFER	DEPTH RANGE (mbgl)	7.60	440	3-40	3-40	3.40	3-60/80-120	11-40	4-60/80-120
DAT	AOUIFER	FORMA-	NOIT	Alluvium / Plic-Pleis- tocene rocks	Alluvium / Miocene sediments	Alluvium/ Miocene sediments	Allavium/ Miocene sediments	Alluvium / Miocene sediments	Alluvium / Pito-Pleisto cepe rocks	Alluvium	Alluvium / Plio-Pleisto cene rocks
	TER	È	충	٥	٥	0	0	٥	ν.	8	٥
	GROUND WATER	AVAILABILITY	(%) DM	81	8	8,	981	8	95	80	8
	GROU	AVA	3.W	0	0	0	0	0	0	0	0
		UNTAPPED	AVE.O		•	•		0.7	,		•
	SPRINGS	UNT	Š.		. •	•	•	6	• .	•	· · ·
	SPR	TAPPED	NO. AVE.Q	0 :	3 1	0.7	0		0.6	0.7	0
		۲	2	٥	٥	М	•	и ;	6)	~	0
		MAX. ((AVE.)	SP. CAP. (Vs/m) SW DW	0.76- 0.76 (0.76)	0.03- 0.23 (0.13)	0.13- 1.03 (0.58)	0.08- 2.95 (0.82)	0.14-	0.26- 2.10 (1.130	0.26 0.20 (0.20)	0.17- 4.14 (1.52)
	SNO	MAX.	SP. CA	0,09- 3.45 (1,02)	0.08- 2.10 (0.90)	2.11 (0.6%)	0.12- 4.57 (1.33)	0.03- 1.03 (0.49)	0.15- 2.59 (1.09)	4 C C C C C C C C C C C C C C C C C C C	0.06-1.03
Ş	RMAT	μi	SWL (mbgl)	6	•	2	и .		∞	12	~
OTTO	WELL INFORMATIONS	AVE	SWL (74	4	6		60		=	4 :
ING CONDITIONS		Ŧ	ε MΩ	õ	23-61	23-27	21-1.33	24.35	31:33	35.45	22-30
EXIST		DEPTH	e ws	\$ 5	8-19	619	8-20	7-20	8,	15.18	× 5
			•	0	0	۰	٥	٥	v,		٥
	GEOLOGIC UNITS		ź	۰	35	٥	ន	۰	ន	8	٥
	2	8	ž	٥	\$	8	٥	88		. 0	0
			Ź		0	0		٥	× .		9
	_		~	8.	8	05	9	8	8	•	8
		TOPOGRAPHY		flat	flat to mountainous	flat to hilly	flat to billy	undulating to hilly	flat to hilly	mountainous	flat to hilly
		MUNICIPALITY		Santa Catalina	Santa Cruz	Santa Lucia	Santa Mana	Santiago	Santo Domingo	\delta is	Sinaut

Table 7.6.2 Rydrogeological Description by Municipality (Cont'd.)

							EXISTING CONDITIONS	CCONDITI	OTTIC	SS										.VG	DATA INTERPRETATION	NOLLY
	:	٥	GEOLOGIC UNITS	SCC	Ş	-		WEL	INFO	WELL INFORMATIONS	SNOI			SPR	SPRINGS		g	GROUND WATER	/ATER	AQUIF	ESTIMATED	
MUNICIPALITY	TOPOGRAPHY			(4)	:	L	DEPTH	, x	₹	AVE	MAX,	MAX, ((AVE.)		TAPPED	INI	UNTAPPED	~	AVAILABILIT	LITY	FORMA-	AQUIFER	OTHERS
				-	-	Γ	Ê		SWL	(mbgl)	SP. CA	2. (V.s/m)	Š	SWL (mbgl) SP. CAP. (IVMm) NO. AVE. O NO. AVE. Q	ò	AVE, Q		(%)		NO.	DEPTH	
		×	N3	N2 N	ï	0	»»	MΩ	À	á	ΑS	Mα		(1/s)		(I/s)	S.W	MΩ	'n		RANGE (mbgl)	
Sugpon	mountainous	rı .	0	<u> </u>	8	. # : 6	15-18	35-45	=	21	1,00-	0.20- 0.20 (0.20)	6	1.0	9	0.6	٥	100	0	Alluvium / Miocene sediments	11-40	Potential aquiters can be found in the Amburayan niver valley with expacity of 0.5-1.5 Vern. No water quality information. Largely spring area.
Suyo	trountainous	0		0	1 27	10 1:	15-18	23	Ξ	01	1.00-1.00 (1.00)	0.36- 0.36 (0.36)	91	1.0	8	5.0	٥	06	01	Alluvium / Miocene sodiments	11-40	Potential aquifer can be found in the valley flat of Chico nver with setimated capacity of 0.5-1.0 l/s/m. No water quality information. Largely spritty area.
Tagudin	flat to billy	ន	0g :	0	0	0	. 7-19	21-37	4	6	0.07- 1.56 (0.92)	0.04- 0.52 (0.44)	3	0.7	0	0.0	٥	100	0	Alluvium / Pio-Pleis- tocenc rocks	4-40/80-170	Potential aquifers are expected in the allowal plan and probably in the underlying Pito-Pleistocene rocks with estimated capacity of 1.0-2.5 Izem. Some TWD wells in Poblacion have high Cl. F & Fe.
Vigan	flat	8	0	0	0		20 20	21-100	6	\$	0.11- 7.57 (1.56)	0.07- 12.60 (1.88)	٥	0	0	0.0	٥	81	0	Alluvium/ Plio-Picis- tocene rocks	3-60	Potential aquifers exist in the broad alluvial piain and probably in the low relief hills with esti-mated capacity of 2.5 Us/m. Some MYWD wells have high Cl. Ca. Mg content.
Note: R = Recent Deposits N, = Pilo-Picistocene Rocks		N ₂ = Late Miocene Rocks N, * Early Miocene Rocks	EC Mio	cene F	ocks cocks		0 %	O = Rocks Older than Miocene SW = Shallow Well Area	s Older Jiow W	than N'ell Are	Liocene	·	DW.	DW = Deep Well DF = Difficult Area	cell Area		Q=D SwL:	hscharge w meter l	Q = Discharge/Flow Rate mbgl = meter below groun SWL = Static Water Level	Q = Discharge/Flow Rate mbgl = meter below ground level SWL = Static Water Level		l/s/m ≈ liter/second/meter (drawdown) Gown) SP CAP = Severific Canadra



Table 7.6.3 Standard Specification of Wells by Municipality*

		l			ard Speci		
Manicipa	lity	Type	Proportion**	Depth Range	SWL	Specific Capacity	Remarks
	1		(%)	(m)	(m)	(Vsec/m)	
lilem	Rural	sw	0	15< D <20	10	0.5	·
		DW	90	20< D<40	15	0.5	
	Urbán	SW	0	15< D <20	10	1.5	
	To the same	DW	100	20< D <40	15	1.5	
7.001.00	Rural	SW	0	10< D<20	5	10	
ianayoyo	Kulai	DW	100	20< D <40	10	1.0	
	Urban	SW	0	10< D <20	5	2 5	
	Orthan	DW	100	20< D <40	10	25	
			0	10< D <20	5	1.0	
lantay	Rural	\$W		20< D <60	10	1.0	
		DW	65		3	2.5	
	Urban	SW	0	10< D<20		2.5	•
		DW	100	20< D <60	10		1 untapped spring with
Burgos	Rurai	SW	00	10< D <20	5	1.0	
	L	DW	100	20< D <40	10	1.0	potential discharge of
	Urban	SW	0	10< D <20	5	1.5	3.0 Vsec.
	<u></u> [DW	100	20< D<40	10	1.5	
abugao	Rural	SW	0	10< D <20	5	2.0	
-		DW	100	20< D <60	10	2.0	•
	Urban	SW	0	10< D<20	5	2.5	•
	ì	DW	100	20< D<60	10	2.5	* * * * * * * * * * * * * * * * * * *
Candon	Rural	SW	0	10< D<20	5	1.0	-:
		DW	100	20< D <40	10	1.0	
	Urban	SW	0	10< D<20	1	2 5	
	Ottoan	DW	100	20< D <40	10	2 5	
~	Rural	SW	1 0	10< D <20	2	2.0	
Caoayan	Kurai	DW	100	20< D<60	5	20	• •
	75-1	SW	0	10< D<20	2	2.5	
	Urban		<u> </u>	20< D <60	5	2.5	
		DW	100		5	0.5	
Cervantes	Rural	SW	1 0	15< D <20	J	0.5	
		DW	40	20< D<40	10		
	Urban	SW	0	15< D <20	5	10	÷.
		DW	95	20< D <40	10	10	
Galimuyod	Rural	SW	0	10< D <20	5	1.0	
		DW	100	20< D <40	10	1.0	
	Urban	sw	0	10< D <20	5	2.5	
		DW	100	20< D <40	10	2.5	
G. del Pilar	Rural	SW	0	15< D <20	10	0.5	I untapped springs with
		DW	90	20< D <40	15	0.5	potential discharge of
	Urban	sw	0	15< D <20	10	1.0	1.50 1/sec
	- i	DW	100	20< D<40	15	10	
Lidlidda	Rural	SW	0	10< D <20	5	0.5	
Cidilova	1	DW	100	20< D<40	10	0.5	
•	Urban		0	10< D <20	5	1.5	
	J. Contract	DW	100	20< D <40	10	1.5	
Massiassi	Rural	SW	0	10< D<20	5	1.0	I untapped springs with
Magsingal	Rurar	DW.	85	20< D<60	5	1.0	potential discharge of
					5	2.5	3.0 Vsec
	Urban		0	10< D<20		2.5	J.0 P044
		DW	100	20< D<60			I untapped springs with
Nagbukel	Rural	,	0	10< D <20	55	1.0	potential discharge of
		DW	100	20< D <40	10	1.0	
	Urban	SW	0	10< D <20	5	2.5	0.5 l/sec
		DW	100	20< D<40	10	2.5	
Narvacan	Rural	SW	0	10< D <20	5	1.0	
		DW	90	20< D <40	10	1.0	J
	Urban		0	10< D <20	5	2.5	1

Table 7.6.3 Standard Specification of Wells by Municipality* (Cont'd.)

					lard Spec	Specific Capacity	Remarks
Münlcipalit	y	Type	Proportion**	Depth Range	SWL		Remarks
			(%)	(m)	(m)	(Vsec/m)	
	1	DW	100	20< D <40	10	2.5	
virino	Rural	SW	0	15< D <20	10	0.5	3 untapped springs with
	l	DW	40	20< D <40	15	0.5	potential discharges ranging
	Urban	SW	0	15< D <20	10	1.0	from 2.33 to 20.33 1/sec
	l	DW	95	20< D <40	15	1.0	·
alcedo	Rural	SW	0	15< D <20	10	1.0	
	1	DW	100	20< D <40	15	1.0	
	Urban	SW	0	15< D <20	10	2.5	
		DW	100	20< D <40	15	2.5	
San Emilio	Rural	SW	0	15< D <20	10	0.5	
TEL PRINCIPO	1	DW	100	20< D <40	15	0.5	
	Urban	SW	0	15< D <20	10	1.0	
	O (Can	DW	100	20< D <40	15	1.0	
an Esteban	Rural	SW				-	
VAIT ESICOSII	ושושא				·		
	11.4	DW	0	10< D <20	5	2.5	
•	Urban	SW		20< D <40	3	2.5	
	- 	DW	100		5	1.0	
ian Ildelfonso	Rural	SW	0	10< D <20		1.0	
	 	DW	100	20< D <60	10	2.5	
	Urban	SW	0	10< D <20	5		
		DW	100	20< D <60	10	2.5	
San Juan	Rurat	SW	0	10< D <20	5	2.0	
		DW	100	20< D <60	10	2.0	
	Urban	SW	0	10< D <20	5	2.5	
		DW	90	20< D <60	10	2.5	
San Vicente	Rurat	SW					
	L	DW	<u> </u>			<u> </u>	
	Urban	SW	0	10< D <20	2	2.5	
4 To 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DW	100	20< D <60	5	2.5	
Santa	Rural	SW	0	10< D <20	5	1.0	I untapped spring with
		DW.	50	20< D<60	10	1.0	potential discharge of
	Urban	SW.	0	10< D<20	5	2.5	2.0 Vsec
		DW	75	20< D <60	10	2.5	
Santa Catalina	Rural	SW	-	-	-	-	
	1	DW	<u> </u>		- :		
	Urban	sw	0	10< D <20	5	2.5	
	Citati	DW	100	20< D<60	5	2.5	
Santa Cruz	Rural	sw	0	10< D<20	5	1.0	
Jama Cruz	IXO. III	DW	100	20< D <40	10	1.0	
	Urban	sw	0	10< D <20	5	2.5	·
	Ologis	DW	100	20< D <40	5	2.5	{
0			1 0	10< D <20	5	1.0	
Santa Lucia	Rural	SW					·
	ļ	DW	100	20< D <40	10	1.0	ł
	Urban	SW	0	10< D <20	1 2	2.5	·
<u> </u>		DW	100	20< D <40	10	2.5	
Santa Maria	Rurat	SW	0	10< D<20	5	1.0	ł ·
	<u> </u>	DW	100	20< D <40	10	1.0	-
	Urban	}	0	10< D <20	5	2.5	1
		DW	0	20< D <40	5	2.5	ļ
Santiago	Roral	SW	0	10< D <20	5	1.0	1
	L	OW	100	20< D <40	10	1.0	
	Urban	SW	0	10< D <20	5	2.5]
		DW	100	20< D <40	5	2.5	
Santo Domingo	Roral	SW	0	10< D <20	5	1.0	
Owner Extended		DW	100	20< D<60	10	1.0	1
	Urban	+	0	10< D <20	5	2.5	1
	Orean	377	100	20< D <60	10	2.5	1





Table 7.6.3 Standard Specification of Wells by Municipality* (Cont'd.)



			[Stand	iard Spec	ification	
Municipali	ty	Type	Proportion**	Depth Range	SWL	Specific Capacity	Remarks
			(%)	(m)	(m)	(Vsec/m)	
Sigay	Roral	sw	0	15< D <20	10	0.5	
		DW	55	20< D <40	15	0.5	
	Urban	sw	0	35< D <20	10	1.0	
		Ď₩	70	20< D <40	15	1.0	<u> </u>
Sinait	Rural	SW	0	10< D <20	5	2.0	
		DW	100	20< D <60	5	2.0	•
•	Urban	SW	0	10< D <20	5	2.5	
		DW	100	20< D <60	5	2.5	
Sugpon	Rural	SW	0	15< D <20	10	0.5	
		ĐW	100	20< D <40	15	. 0.5	
	Urban	sw	0	15< D <20	10	1.5	
		DW	100	20< D <40	15	1.5	·
Suyo	Rurai	SW	0	15< D <20	10	0.5	
•		DW	85	20< D <40	10	0.5	
	Urban	sw	0	15< D <20	c20 10 0.5 c40 10 0.5 c20 10 1.0		
		DW	100	20< D <40	10	1.0	
Fagudin	Rural	sw	0	10< D <20	5	1.0	
•		DW	100	20< D <40	10	1.0	
	Urban	SW	0	10< D <20	5	2.5	
		DW	100	20< D <40	- 5	2.5	
Vigan (Capital)	Rural	SW	-		-		
		DW	-	-			
	Urban	SW	0	10< D <20	5	2.5	· ·
		DW	100	20< D <60	5	2.5	



B. FUTURE REQUIREMENTS AND DEVELOPMENT PLAN

B. FUTURE REQUIREMENTS AND DEVELOPMENT PLAN

8. FUTURE REQUIREMENTS IN WATER SUPPLY AND SANITATION IMPROVEMENT

8.2 Targets of Provincial Sector Plan

Table 8.2.1 Estimation of Base Year Service Coverage of Water Supply

······································		Population	Pop		erved by 1 Litles	995	Pop. Ser		tanned/O jects	n-going	Po	g. Serve	d in the Ba	se Year (
Municipalities	Туре	(1995)	Level III	Level	Level 1	Total	Level	Level 11	Level 1	Total	Level (ii	Level H	Level 3	Total	Coverage
Ablem	Urban	1,411	0	0	905	905	0	0	0	. 0	0	0	905	905	64
ALINE DI	Rural	4,307	0	0	1,758	1.758	.0	O	0	0	o	0	1,758	1,758	41
	Total	5,718	0	0	2,663	2,663	0	0	. 0	0	0	0	2,663	2,663	47
Вавауоуо	Urhan	818	0	0	685	685	0	0	G	υ	. 0	0	685	685	84
Datiajo)	Rural	5,510	o	0	4,629	4,629	0	0	0	0	0	0	4,629	4,629	8-1
-	Total	6,328	O	0	5,314	5,314	0	0	0	0	0	0	5,314	5,314	84
Bantay	Urban	10,098	1,150	0	5,945	7,095	0	0	75	75	1,150	: 0	6,020	7,170	71
Damay	Rural	18,037	3,750	0	9,311	13,061	0	0	150	150	3,750	0	9,461	13,211	23
	Total	28,135	4,900	0	15,256	20,156	0	0	225	225	4,900	0	15,481	20,381	12
Burges	Urban	1,494	0	0	899	899	O C	0	e	0	0	. 0	१५ ५	E99	(4)
Da. g. G	Rurat	8,793	0	975	4,763	5,738	0	6	0	0	0	975	4,763	5,738	- 65
	Total	10,287	0	975	5,662	6,637	0	C	0	0	0	975	5,662	6,637	65
Cabugao	Urban	7,904	850	0	4,236	5,086	0	C	2,100	2,100	850	c	6,336	7,186	19
Children	Rural	22,091	1,710	0	14,679	16,389	. 0	G	2,775	2,775	1,716		17,454	19,164	87
	Total	29,995	2,560	0	18,915	21,475	1	9	4,875	4,875	2,560		23,190	26,350	88
Candon	Urban	7,229	0	0	4,560	4,560			0	C	0		4,560	4,560	63
	Rural	40,042	0	550	24,796	25,346			0	0	Ç	550	24,796	25,346	63
. *	Total	47,271	0	550	29,356	29,906		(0		0	550	29,356	29,906	63
Самаузя	Urban	6,787	630	0	3,379	4,009	0	(900	900	630	(4,279	4,909	. 72
Caragan	Rural	9,700	1,700	0	4.157	5,867	1	,) 0		1,700	(4,167	5,867	60
	Total	16,487	2,330	0	7,546	1		 	900	900	2,330	,	8,446	10,776	65
Cervantes	Urban	2,608	0		1,863	1,863		, () (,	0		1,863	1,863	71
cervanies	Rural	11,603	0			9,063	T	,) () (0		9,063	9,063	. 71
	Total	14,218						1	9 (0	(10,926	10,926	77
Colimania	Urban	430			t	f		1	0 (0	0		375	375	87
Galimayed	Rural	8,298	C		7.036	7,036		 -	375	37:	0		7,413	7,481	89
	Total	8,728							37		. 0		7.786	7,786	85
G. écl Pilar	Urban	607		1	1			1	0 (600		0 0	600	3,
G. BCI Pital	Rural	2,992	1		1 407	 	1	1	0 ()	800	55	1,407	2,757	9.
	Total	3,599	1		1	1	+				1,400	- 55	1,407	3,357	9.
Liglidda	Urban	1,247		1					0 0	0	0		D 1,129	1,129	ÿ
E)Gridda	Rural	2,739	1	1					0			,	2,454	2,454	9
	Total	3,986	1	1~		1			0	9) (3,583	3,583	94
14.500.00	Crban	5,278		1		1	-	1	0 30	30)	0 4,208	4,208	84
Magsingal		18,723			1	1		+	0 52:	5 52	5 0		0 14,244	14,244	7
	Rural Total	24,001	1			1			0 82	\$ 82	, (0 18,452	18,452	7
N. A. Z. I	Urban	737	1	1			-		ol	1			0 465	465	6
Nagbukel	Rural	3,216	1	1	1			0	0 15	0 15	0 (5	0 2,030	2,040	6
	Total	3,940		· I		1		1	0: 15	0 15	0 (5	0 2,495	2.545	6
<u> </u>	Urban	2,810			1.04	1				1	0 874		0 1,040	1,914	6
Narvacan		34,82	1	150	1					1	0 (4.5	0 18,34	18,79	5
	Roral Total	37,63	1	t			1		·		0 874	4 45	0 19.38	20,708	5
Cariety .	Urban	1,38	1	1,020	1	1,02					0 (3) 7
Quirino		6,03	1	2,22		2,22			-1		0	2,22	6 0	2,220	, ,
1	Rura) Total	7.41		3,24	T	0 3,24				0	0 (3,24	۸ (3,246	4
Calla La		1,34			1.03	T		-1		0	0		0 1,03	1,030	,
Sakedo	Urban	8,65		1	0 6,64			+		0	0	0	0 6.64	6.61	1
1	Rutal	9,99	7	1	0 7,68			+		0	0	D .	0 7.68	84.6) 1
C - F-25	Tetal	2,30			0 2,14			1					0 2,14	2,14	1
San Emilio	L'rban Purst	1		 	0 3.56				 -		0	0	0 3.56	3,56	3 1
I	Rural	4,10			0 5,70			o			c c	-1	0 5,70		4 1
	Total	6,40		0 25				0		1		0 2			7
San Esteban	Crhan			0 15							-1	0 1	1	1	
l .	Rural	6,03		0 40		-		0					4.08		7



Table 8.2.1 Estimation of Base Year Service Coverage of Water Supply (Cont'd.)

	Type	Population	Pop		erved by littles	1995	Pop. Sea	ved by F Pro	lanned/C ects	n-going	Po		đ in the B	ase Kear	(1995)
Municipalities	•11	(1993)	Level III	Level []	Level 1	Total	Level III	Level U	Level	Total	Lorel	Level 11	Level k	Total	Coverage
San tidelfouso	Urban	1,024	0	0	802	802	0	0	0	0	0	Ú	802	802	78
	Rurat	4,046	· O	0	3,110	3,110	0	0	0	O	6	. 0	3,110	3,110	77
	Total	5,070	0	0	3,912	3,912	0	0	. 0	0	0	0	3,912	3,912	77
San Juan	Urhan	3,400	o	. 0	2 582	2,582	0	0	150	150	· o	. 0	2,732	2,732	80
	Rural	18,565	0	325	13,712	14,037	0	0	750	750	0	325	14,462	14,787	80
	Total	21,965	С	325	16,294	[6,619	0	0	900	900	Ð	325	17,194	17,519	80
San Vicente	Urban	1,193	0	o	763	763	0	0	300	300	0	0	1,063	1,063	89
	Rural	9,643	0	0	6,440	€,440	0	0	150	150	0	0	6,590	6,590	65
	Total	10,836	0	e	7,203	7,203	0	0	450	450	0	0	7,653	7,653	. 7)
Santa	Urban	1,731	755	0	606	1,361	0	0	0	0	755	0	606	1,363	79
	Rural	11,497	95	494	6,792	7,381	0	0	150	150	95	494	6,942	7,531	. 64
	Tetal	13,228	850	494	7,398	8,742	0	0	150	150	850	494	7,548	8,892	67
Santa Catelina	Urban	1,242	. 0	0	941	941	o	0	0	0	0	0	941	941	71
	Rural	11,068	0	0	8,101	8,101	0	0	300	300	0	0	8,403	#. 491	70
	Total	12,310	0		9,042	9,042	0	0	300	300	0	0	9,342	9,342	- 71
Santa Cruz	Urban	4,461	0	0	3,075	3,075	0	0	0		0	U	3,075	3,075	65
Digital Cruz	Rurat	27,697	0	t	18,448	19,523	0	0	0		0	1,075	18,448	19,523	7(
	Total	32,158	0	1,075	21,523	22,598	0	0	0			1,075	21,523	22,598	7(
Santa Lucia	Urban	2,256	920		896	318,4	. 0					0	896	1,816	 -
	Rural	20,045	645	125	12,923	13,693	ő			0		125	12,923	13,693	65
	Total	22,301	1.565	125	13,819	15,509	0	-		0		125	13,819	15,509	7(
Santa Muna	Urban	3,644	0		1,917	1,947	0					0		1,947	
Sama termin	Rural	21,543	250		11.258	11,508	0			0		0		11.508	5.
		25,187	250		13,205	13,455	- 0	0		0		0		13,455	5.
Consideration	Total Urban	2,385	335	75	1,361	1,771	0	Ŏ		0	335	75	 	1,771	1
Santiago	Rural	13,543	0		9,539	9,539	0			225		0	1	9,764	
	Total	15,928	335		10,900	11,310	Ŏ	6	t	225	335	75	11,125	11,535	
Santo Domingo	Urban	2,951	25	1	2,343	2,368	0	I		0		0	1	2,368	1
Salto Extinigo	Rural	19,450	10	1	15,179	15,664	0	I	 	600	10	475	15,779	16,264	1
	Total	22,401	35		17,522	18,032	1			600		475	1	18,632	
Ciorin	Urhan	22,40,	0	1	0	0,000	0					0			1
Sigay	Roral	2,086	<u>°</u>		455	2,080	0	1		1	1		455	2,080	
	Tetal	2,086	· ·	t	455	2,080		 -		1	t	1,625	455	2,080	
Sinait	Urban	2,891	995	†	1,236	2,231		t	1	1		0	t	2,897	····
Sinair	Rural	20,401		1		13,389			1		0	0		16,014	
	Total	23,292	995		14,625	15,620	1	1	1	4,500		0		(8,905	
Suggera	Urban	976	7,7,0	· · · · · · · · · · · · · · · · · · ·	690	915	1	†	f	1	1	225	1	915	
SUFFI II	Rural	1,810	C	 	0	1,173	1	T				1,175			1
	Total	2,786		1,400	690	2,090	t	†	ì		,	1,400	690	2,090	T
Cura	Urban	1,790	c	1				1	1	†	0		1		
5030	Rural	7,047	- 0						1	1	1		1.	4,99	
·	Total	8,837	·		294		1	t	1	t	t			1	
Francis -	1					1	1	 	1	1		T	T		·
l'agedin	Urban	4,853	2,660	T		1							1		T
	Rural	27,951	2,555	T		1	+	1		1			·		
	Total	32,804		1	1	T		 -					1		
Vigna (Capital)	Urban	41,403		T	T	T	·	1	1	L .	1		1		
	Rucal	41.401		_				1		1	1				
	Total	41,403		T		i :	T	*******		T	r	T T	1		T
	Ciban	131,439	T		1	1					T	1	T	1	1
Provincial Total	Rural Fotal	432,090 563,529		1	1	391,48			8,775 15,600					1	

Table 8.2.2 Population Coverage in Phase I Provided by Served Population in the Base Year (Water Supply)

		Populatio	n Served by	Existing Fa	acilities	199	15	200	0
Municipalities	Type	Level III	Level H	1.evel 1	Total	Total Population	% Coverage	Total Population	% Coverage
dilem	Urban	0	0	905	905	1,411	64	1,492	
:	Rural	0	0	1.758	1,758	4,307	41	4,556	
	Total	0	0	2,663	2,663	5,718	47	6,048	L
lanayoyo	Urban	0	0	685	685	818	84	865	
m.,,,,,,,	Roral	0	0	4,629	4,629	5,510	84	5,829	
	Total	0	0	5,314	5,314	6,328	84	6,694	
Bantay	Urban	1,150	0	6,020	7,170	10,098	71	10,682	
Janay	Roral	3,750	0	9,461	13,211	18,037	73	19,079	
	Total	4,900	0	15,481	20,381	28,135	72	29,761	
turns.	Urban	0	0	899	899	1,494	60	1,580	
Iorgos	Rural		975	4,763	5,738	8,793	65	9,302	
	Total	1 <u>`</u>	975	5,662	6,637	10,287	65	10,882	
2.1	Urban	850	0	6,336	7.186	7,901	91	8,361	
Cabugao .	Roral	1,710	0	17,454	19,164	22,091	87	23,367	
			<u>°</u>	23,790	26,350		88	31,728	
	Total	2,560	0	4,560	4,560	ļ	63	7,647	
Candon	Urban	- 0	550	24,796	25,346	<u> </u>			
	Rural	0		29,356	29,906		63	50.003	
	Total	0	550		4,909	6,787			
Caeayan	Urban	630	. 0	4,279	5,867	1	 		
	Roral	1,700		4,167			65	 	
	Total	2,330	0	8,446	10,776		ļ		
Cervantes	Urban	0	0	1,863	1,863	ļ			
	Rural	0		9,063	9,063	+	 	4	
	Total	0			10,926		1		+
Galimuyed	Urban		0	375	375				
	Rural	: ()			7,411	1			
	Total	0	0	7,786	7,780			+	
G. del Pilar	Urban	600	. (!	64X			·	
<i>*</i>	Roral	800	-550	1,407	2,757				
	Total	1,400	550	1,407	3,35	1	-	+	
Lidliðda	Urban		0	1,129	1,129				<u> </u>
_	Roral	((2,454	2,45	2.73			
	Total	. (C	3,583	3,583				
Magsingal	Urban	((1,208	4,20	5,27		 	
	Rural	() (14,244	14,24	18,72			
	Total	() (18,452	18.45	2 24,00	1 7		
Nagbukel	Urban	() (469	46	7.3	2 6	1 77	1
I TO ECONCT	Rural		50	2,030	2,08	3,21	6 6	5 3.40	2
	Total) 50	2,499	2.54) 3,94	8 6		
Narvacan	Urban	87-		· · · · · · · · · · · · · · · · · · ·	1,91	4 2,81	6 6	3 2.97	9
144144/411	Roral) 450			34,82	5	36.83	3
	Total	87			20,70	8 37,63	1 5	39.81	2]
Quirino	Urban		1,020		1,02	0 1,38	1 7	4 1.46	<u> </u>
Quitino	Roral		2,220	·	- 00		4 3	7 6.38	3
	Total		3,240	1	· · · · · · · · · · · · · · · · · · ·			1 7.81	4
Calvela	Urban			1,036				7 1.42	2
Salcedo	Rural			6,641	+	-		7 9.15	5
				7,680				7 10,57	7
<u> </u>	Total	<u> </u>		2,141	+				6
San Emilio	Urhan			3,563			- 		
l	Rural							9 6.77	
ļ	Total			5,70				6 79	
San Esteban	Urban		0 25		+			5 6,38	
1	Rural		0 14 0 40					6 7,17	

Table 8.2.2 Population Coverage in Phase I Provided by Served Population in the Base Year (Water Supply) (Cont'd.)

Municipalities	Туре	Populatio	on Served by	y Existing F	deflities	199	0.5	20	90
Muncipaones	1346	Level III	Level II	Level1	Total	Total Population	% Coverage	Total Population	% Coverage
San Hdelfonso	Urban	0	0	802	802	1,024	78	1,083	7-
	Rural	0	0	3,110	3,110	4,046	77	4,280	7.
	Total	0	0	3,912	3,912	5,070	77	5,363	7.
San Juan	Urban	0	0	2,732	2,732	3,400	80	3,596	70
	Rural	0	325	14,462	14.787	18,565	80	19,638	7:
	Total	0	325	17,191	17,519	21,965	80	23,234	7:
San Vicente	Urban	0	0	1,063	1,063	1,193	89	1,262	8
	Rural	0	0	6,590	6,590	9,643	- 68	10,200	6:
	Total	0	0	7.653	7,653	10,836	71	11,462	6
Santa	Urban	755	0	606	1,361	1,731	79	1,831	7-
	Roral	95	494	6,942	7,531	11,497	66	12,161	6.
	Total	850	494	7,548	8,892	13,228	67	13,992	6
Santa Catalina	Urban	0	e	941	941	1,242	76	1,314	7.
	Rural	0	0	8,401	8,401	11,068	76	11,707	7.
	Total	0	0	9,342	9,342	12,310	76	13,021	7:
Santa Cruz	Urban	0	0	3,075	3,075	4,461	69	4,719	6.5
	Rural	0	1,075	18,448	19,523	27,697	70	29,297	6
	Total	0	1,075	21,523	22,598	32,158	70	34,016	60
Santa Lucia	Urban	920	U	896	1,816	2,256	80	2,386	7(
	Rural	6\$5	125	12,923	13,693	20,045	. 68	21,204	6:
	Total	1,565	125	13,819	15,509	22,301	70	23,590	60
Santa Maria	Urban	0	0		1,947	3,644	53	3,855	5
	Rural	250	0	11,258	11,508	21,543	53	22,788	5
	Total	250	0	13,205	13,455	25,187	53	26,643	51
Santiago	Urban	335	75	1,361	1,771	2,385	74	2,523	7(
	Rural	0	0	9,764	9,764	13,543	72	14,326	63
	Total	335	75	11,125	11,535	15,928	72	16,849	6
Santo Domingo	Urban	25	0	2,143	2,368	2,951	80	3,122	76
	Rural	- 10	475	15,779	16,264	19,450	84	20,574	7.
	Total	35	475	18,122	18,632	22,401	83	23,696	7.
Sigay	Urban	0	0	0	C	0	0		
	Rural	0	1,625	455	2,080	2,086	100	2,207	9
	Total	10	1,625	455	2,080	2,086	100	2,207	9.
Sinait	Urban	995	0	1,896	2,891	2,891	100	3,058	- 9.
	Rural	0	0	16,014	16,014	20,401	78	21,580	7.
*	Total	995	0	17,910	18,905	23,292	81	24,638	7
Suggon	Urban	0	225	690	915	976			8
	Rural	0	1,175	0	1,175	1.810	65	1,915	6
	Total	0	1,400	690	2,090	2,786	75	2,947	7
Suyo	Urban	0	1,275	0	1,275	1,790	71	1,894	6
33,0	Rural	0	4,700	294	4,994	7,047	71		
	Total	0	5,975	294	6,269	8,837	71	9,348	
Tagudin	Urban	2,660	0	1,674	4,334	ţ	89	5,133	8
	Rural	2,555	675	18,679	21,909	27,951	78	29,567	
	Total	5,215	675	20,353	26,243	32,804	80		
Vigan (Capital)	Urban	6,300	0		30,725	41,403	74		
e (Fair & abital)	Roral	05.550	0		1)	0	<u> </u>	0	
	Total	6,300		24,425	30,725	41,403	74	43,796	
				<u> </u>	99,658		76		
15	Urban	16,094	2,850						
Provincial Total	Rural Total	11,515 27,609			306,211 405,869	432,090 563,529	71		

Table 8.2.3 Number of Households Served by Sanitary Toilets in the Base Year (1995)

Heat Page			3607	-	Konsekol	Mountabolds Heises Komita	Pull in Tollers in 199	3	Reciptent H	HHe of Plans	ed/On-going	foing Projects		Households		Using Sanitary Tolets in Base Year (1995)	is in Base V	'ear (1995)		
The color The		j		╁	-	2004	ı i	-	Н	Pour	1			Number				Coverage (%)	(3	
Company Comp	Singipality.	3	Population	-	Flush			Total	Hash A	Flush		100	Flush	Pour Flush	AIA	Total	Flush	Pour Flush	VIP	Total
Company Comp			1.44	*	14	571	65		0	Ö	õ	Ó	7	145	3.	11.	1	98	77	3
The color	ABK-III		1. V. V.	124	3	117	8	019	С	0	0	ō	0			610	0	531	۶	2
Figure F		Kara	312.5	30	1	3	XX.	153	0	٥	0	c				12×	- II	75.	ž	2
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Trigger 10,000 1	Danistovo	1	0.5,	150	c	910	X	70	ō	Ģ	0	0	O			444	Û	3	~	ا ٠
Figure F		KUR	31,14	3	k	070	×	1,107	0	o	0	0	G			1,107	Ö	3	۲.	ş
The column The		0.3	0.200		,	778	7,4	(3	0	ã	О	Ó	79			1.402		5.5	177	3
Column C	Bantas	ucu.	77.07	OP.	•	1 7		\$ 77.5	C	-	0	ö	0/1			2.775		14.		ž
Trigger Colored Colo		Kurai	100.00			1		15,7	1	0	ō	ō	120			4.677	7:	120	×	×
Figure 1,000 1,0		Local	18.187	2	†			42.6	6	,	c	ð				3x6		97	7	(b)
Train	Burgos	1rhan	75.7	C6.7	7 3	0.7	Ç.	087	o d	5 2	=	ē	57			OXT:	-	×		2
Train Trai		Rural	8.793	X/9.	?	80.		204	5		2	É	ľ		l	1.700	-	91	-	×
Figure 1 Figure 1		Total	10.x7	1.97.4	2	3		1./00	5			5	100			175	~	FX	-	5
Treat	Сабиели	uru,	Q,	×o	ŝ	3	\$;		5	7	0		-		l	1070	Ö	20.	ç	G,
Trigon T		Rural	1(4)	7 23	=	r X	3	6,070	Ď,	5 4	> <	o 5	- -			195		58		3
Cuton		Total	566 GC	5,730	91		383	5.6.5	o	3	2	ं	1					3		1
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Chem		Karal	10.042	1,484	1.47	6.083	250	7. XO	0	3	ö	5	1		1	Dec.	1	3	1	*
Treat		Total	127 6	X,XX,X	î	× 24	×	×	0	5	G .	0						1	1	2
Treat	Coorsan	('rean	187.9]	5.	XXX	180	1.344	O	5	Ö	0	'/ I		ŀ	1			١	3
Treat	•	Rerail	007.4	1.895	101	STO,	ő	1.149	0	ā	2	٦,	2		١					
Check Cook		Total	16.487	3.239	23	1,0,31	186	1.03.	5	3	c	o (1				ľ	5
Teng	Cervanies	(Lirban	100×	757	081	503	8	<u>-</u>		3	5	o i	ž		١	1				*
Treat		Kural	11.603		707	7	17.4	x io.r		o ·	o	5	3		1		Ì		9	2
Euroli 3,500 1,500 <t< td=""><td></td><td>Total</td><td>14,2111</td><td></td><td>3.</td><td>946</td><td>839</td><td>2.509</td><td></td><td>ő</td><td>=</td><td>Ó</td><td>ic.</td><td></td><td>ļ</td><td></td><td></td><td></td><td>l</td><td>2</td></t<>		Total	14,2111		3.	946	839	2.509		ő	=	Ó	ic.		ļ				l	2
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Kurst 18.723 8.5349 110 2.6804 24c 4.586 0 0 0 0 0 0 110 2.680 746 14.61 12.61 1		10(3)	100	l	8	l	08	CRO		ō	C	O	Ŏ.		l				×	2
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Rural	A school of	20.47.71	71.5	1	7	<u></u>	3	1,85		3	Þ	0						5	ौ	7
Total 3.948 767 4 4.584 2.54 4.84 0 0 0 0 0 4 4.58 2.5 Total	CAN COMPANY	2	9173		Ö	327	ři	Oct.	0	0	3	О				350	Ō	<u>ا</u> ؟		
Check Cartest Cartes		Total	1876			XST	1	-SXT	o	0	Ð	0						3		۱
Kursal LARZI (ARR) 6,801 (ARR) 860 (ARR) 5,824 (ARR) 0 0 0 0 35,24 (ARR) 0 Tenal \$7,637 (ARR) \$7,637 (A	Name	664£.2	2816			077	ō	On:	10	0	3	o	φ.			١		ž	١	,
Total \$7,637 7,434 450 8,804 0 6,414 0 0 0 0 450 5,904 0 0 0 0 0 0 0 0 0		× 2	EX.J	ı		5.524	0	5,884	0	Ø	C	0	9.					ž		
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Table 8.2.3 Number of Households Served by Sanitary Tollets in the Base Year (1995) (Cont'd.)

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	32.804	\$08.5	<u>-</u>	1,507	137	5,223	0	ю	0	9	7		787	177	¢	1.5	×	3
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Table 8.2.4 Number of Public School Students Served by School Toilets in Base Year (1995)

Municipality	1995 'Fotal No. of Public School Students	Std. No. of Students that can be Served by 1995 Toilets	No. of Students to be Served by Planned/On-going Projects	Students that can	Coverage (%)
Alilem	1,333	1,333	0	1,333	100
Banayoyo	1,340	1,340	0	1.340	100
Bantay	3,552	3,552	. 0	3,552	100
Burgos	1,942	1,942	0	1,942	100
Cabugao	4,612	4,450	0	4,450	90
Candon	9,147	5,300	.0	5,300	58
Caoayan	2,377	2,377	0	2,377	100
Cervantes	2,509	1,600	0	1,600	6
Galimuyod	1,451	850	0	850	51
G. del Pilar	552	552	0	552	100
Lidlidda	694	694		694	100
Magsingal	3.466	3,450	0	3,450	104
Nagbukel	1,151	1.151		1,151	10
Narvacan	8,453	8,453	8	8,453	10
Quirino	1.412	1,100	0	1,100	7
Salcedo	2,312	2,050) (2,050	8
San Emilio	1,138	400		400	
San Esteban	1.279	1,279	0	1,279	10
San Hdelfonso	749	749)	749	10
San Juan	5.086	5,086	, (5,086	
Son Vicente	1,407	900) (900	
Santa	2,339	2,339)	2,339	
Santa Catalina	2,069	1,450) (
Santa Crez	5,20	3,650) t	 	
Santa Lucia	4,27	. 1,600)	· 	
Santa Maria	5,45	5,45	2	+	1
Santiago	2,900	1,850)	- 	
Santo Domingo	4,09	7 4,09			1
Sigay	41.				
Sinait	5,520	- }			
Sugpon	640				
Suyo	1,98	7 1,500) 1,500	
Tagodin	6,799			6,799	
Vigan (Capital)	10,15	2 10,15		0 10,152	
Provincial Total	107,80	7 93,91	7] (0 93,917	7

COMMO!

Table 8.2.5 Number of Public Utilities with Sanitary Toilets in the Base Year (1995)

Municipality Type No. of PU in 1995 No. of PU with 1995 Aillem Public Market 0 0 Banayoyo Public Market 0 0 Bantay Public Market 0 0 Bantay Public Market 0 0 Bantay Public Market 0 0 Bus/Jeep Terminal 3 3 Total 0 0 Cabugao Public Market 1 1 Candon Public Market 1 1 Candon Public Market 0 0 Bus/Jeep Terminal 0 0 Caooyan Public Market 0 0 Bus/Jeep Terminal 0 0 Caooyan Bus/Jeep Terminal 0 0 Cavoayan Public Market 0 0 Bus/Jeep Terminal 0 0 0 Cavoayan Bus/Jeep Terminal 0 0 Cavoayan Public Market	· 		_	10 THE 1		No of Pi with		Total Paris	Coverage
Public Market 0 Bus/Jeep Terminal 0 Public Market 0 Public Market 0 Public Market 0 Bus/Jeep Terminal 3 Total 0 Bus/Jeep Terminal 0 Public Market 1 Bus/Jeep Terminal 1 Public Market 1 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0		90		No. of PU with Sanitary Toilets in 1995	No. of PU in Planned/On- going Project	Sanitary Tollets in Planned/On-going Projects	No. of PU in Base Year 1995	No. of PU with Sanitary Toilets in Base year 1995	(%)
yo Public Market 0 Public Market 0 Bus/Jeep Terminal 0 Total 3 Public Market 0 Bus/Jeep Terminal 0 Public Market 0 Public Market 1 Public Market 1 Bus/Jeep Terminal 0 Public Market 1 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 0 Public Market 1 Public Market 1 Bus/Jeep Terminal 0	Public Mark	ដ	0	0	0	0	0	0	0
vo Public Market 0 Bus/Jeep Terminal 0 Total 0 Bus/Jeep Terminal 3 Total 3 Total 3 Public Market 0 Bus/Jeep Terminal 0 Total 1 Bus/Jeep Terminal 1 Public Market 1 Bus/Jeep Terminal 1 Total 1 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 0 Public Market 1 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0	Bus/Jeep Ter	เกาเกลใ	0.	0.	0	0	0	0	0
yo Public Market 0 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 3 Total 3 Public Market 0 Bus/Jeep Terminal 0 Total 1 Bus/Jeep Terminal 1 Bus/Jeep Terminal 1 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0 Public Market 1 Public Market 1 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0	Total		0	0	0	0	0	0	0
Bus/Jeep Terminal 0 Total	Public Mark	et Gt	0	0	0	0	0	0	0
Total	Bus/Jeep Ter	rminal	0	0	0	0	0	0	0
Public Market 0 Bus/Jeep Terminal 3 Total 3 Public Market 0 Bus/Jeep Terminal 0 Public Market 1 Bus/Jeep Terminal 1 Public Market 1 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0 Public Market 0 Bus/Jeep Terminal 0 Public Market 1 Public Market 1 Public Market 1 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0	Total		0	0	0	0	0	0	0
BusJeep Terminal 3 Total 3 Total	Public Mark	10	0	0	0	0	0	0	0
Total	Bus/Jeep Ter	rminal	\$	3	0	0.	т.	3	100
Public Market	Total		3	3	0	0	č.	Ę.	961
Bus/Jeep Terminal 0 Total 0 Bus/Jeep Terminal 0 Total 1 Bus/Jeep Terminal 1 Bus/Jeep Terminal 1 Total 2 Public Market 0 Bus/Jeep Terminal 0 Public Market 0 Total 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0	Public Mark	ct	. 0	0	. 0	0	0	0	0
Total	Bus/Jeep Ter	rminal		0	0	0	0	0	0
Public Market 1	Total		0,	0	0	0	0	0	0
Bus/Jeep Terminal 0 Total 1 Bus/Jeep Terminal 1 Total 2 Public Market 0 Bus/Jeep Terminal 0 Total 0 Total 0 Total 0 Sus/Jeep Terminal 0 Total 0 Bus/Jeep Terminal 0 Bus/Jeep Terminal 0	Public Mark	ប	1	1	0	. 0	1		100
Total 1 Public Market 1	Bus/Jeep Ter	rminal	0	0	0	0	0	0	0
Public Market 1 Bus/Jeep Terminal 2 Public Market 0 Bus/Jeep Terminal 0 Total 0 Rus/Jeep Terminal 0 Bus/Jeep Terminal 0	Total			: : -	. 0	0.			100
Bus/Jeep Terminal 1 Total 2 Public Market 0 Bus/Jeep Terminal 0 Total 0 Bus/Jeep Terminal 0	Public Mark	દા	1	-	0	0	ı	1	100
Total 2 Public Market 0 Bus/Jeep Terminal 0 Total 0 Public Market 1 Bus/Jeep Terminal 0	Bus/Jeep Ter	rminal	ı	1	0	0		Ţ	100
Public Market 0 Bus/Jeep Terminal 0 Total 0 s Public Market 1 Bus/Jeep Terminal 0	Total		7	2	0	0	2	2	100
Bus/Jeep Terminal 0 Total 0 Public Market 1 Bus/Jeep Terminal 0	Public Mark	ថ	0	0	0	0	0	0	0
Total 0 Public Market 1 Bux/Jeep Terminal 0	Bus/Jeep Ter	minal	0	0	0	0	0	0	0
Public Market 1 Bus/Jeep Terminal 0	Total		0	0	0	0	0	0	0
0	Public Mark	<u>ت</u>	-	0	0	0		0	0
	Bus/Jeep Ter	rminal	0	0	0	0	0	0 .	0
Total 1	Total		-	0	0	0	1	0	0
Galimuyod Public Market 0 0	Public Mark	:	0	0	0.	0	0	0	0
Bus/Jeep Terminal 0 0	Bus/Jeep Ter	rminal	0	0	0	0	0	0	0
Total 0 0	Total		0	0	0	0	0	0	0

Table 8.2.5 Number of Public Utilities with Sanitary Toilets in the Base Year (1995) (Cont'd.)

Municipality	Type	No. of PU in 1995	No. of PU with Sanitary Toilets in 1995	No. of PU in Planned/On- going Project	No. of PU with Sanitary Tollets in Planned/On-going Projects	No. of PU in Base Year 1995	No. of PU with Sanitary Tollets in Base year 1995	Coverage (%)
G. del Pilar	Public Market	0	0	0	.0	0	0	0
	Bus/Jeep Terminal	0	0	0	0	0	0	С
	Total	0	0	.0	0	0	0	٥
Lidlidda	Public Market	0	0.	0.	0	0	0	0
	Bus/Jeep Terminal	0	0	0	0	0	0	٥
	Total	0		0	0	0	0	٥
Magsingal	Public Market	-		0	0			100
	Bus/Jeep Terminal	0	0	0	0	0	0	0
	Total			0	0	1	1	8
Nagbukel	Public Market	0	0.	0	0	0	O	0
	Bus/Jeep Terminal	0	0	0	0	0	0	0
	Total	0	.0	0	0	0.	0	0
Narvacan	Public Market		•	0	0			98
	Bus/Jeep Terminal	-		0	0		•	100
	Total	77	7	0	0	2		8
Ouirino	Public Market	_		0	0	-		100
· ·	Bus/Jeep Terminal	0	0	0	0	0	0	0
	Total	1	-	С	0	1	-	8
Salcedo	Public Market	-	-	.0	0		_	81
	Bux/Jeep Terminal	0	0	0	0	0	0	0
	Total			0	0			100
San Emilio	Public Market	0	0	0	0	0	0	0
	Bus/Jeep Terminal	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0
San Esteban	Public Market	0	0	0	0	0	0	0
	Bus/Jeep Terminal	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0

Table 8.2.5 Number of Public Utilities with Sanitary Toilets in the Base Year (1995) (Cont'd.)

Open Terminal 1 0 <	Municipality	Туре	No. of PU in 1995	No. of PU with Sanitary Toilets in 1995	No. of PU in Planned/On- going Project	No. of PU with Sanitary Toilets in Planned/On-going Projects	No. of PU in Base Year 1995	No. of PU with Sanitary Toilets in Base year 1995	Coverage (%)
Buskleep Terminal	Hdelfonso	Public Market	1		0	0	1	1	100
Total Total		Bus/Jeep Terminal	0	0	0	0	0	0	0
Public Market 1 1 0 0 0 1		Total	1	1	0 .	0	1	1	100
Bus/Jeep Terminal 0 0 0 0 1 Total	ו לענוח	Public Market	1	1		0	1	1	100
Total Total 1		Bus/Jeep Terminal	0	0.	0.	0	0	9	0
Public Market 1		Total			0	0	1		100
Bussleep Terminal	Vicente	Public Market	1		0.	0	i	-	100
Total 1		Bus/Jeep Terminal	0	0	- 0	0	0	0	0
Public Market 1 1 0 0 0 0 0 0 0 0		Total			0	0	ı	1	100
Bus/Jeep Terminal	th.	Public Market	1	1	0	0	1		100
Total 1		Bus/Jeep Terminal	O	0		. 0	0	0	0
Public Market		Total	1		. 0	0	1		901
Bux/Jeep Terminal 0	na Catalina	Public Market	0	0		0	0	0	0
Total 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 1 1 0 <td></td> <td>Bus/Jeep Terminal</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>		Bus/Jeep Terminal	0	0	0	0	0	0	0
2 Public Market 1 0 0 0 1 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 <		Total	0 0	0	0	0	0	0	0
Bus/Jeep Terminal 0 0 0 0 0 Total 1 1 0 0 1 1 Public Market 1 1 0 0 0 0 Total 1 1 0 0 0 0 Public Market 1 1 0 0 0 0 Public Market 1 1 0 0 0 0 Public Market 1 0 0 <t< td=""><td>ita Cruz</td><td>Public Market</td><td>1</td><td> 1</td><td> 0</td><td>. 0</td><td>1</td><td>1</td><td>100</td></t<>	ita Cruz	Public Market	1	1	0	. 0	1	1	100
Total 1 0 0 1 Bus/Jeep Terminal 0 0 0 0 0 Total 1 1 0 0 0 Public Market 1 1 0 0 0 Total 1 0 0 0 0 Public Market 1 0 0 0 1 Bus/Jeep Terminal 0 0 0 0 1 Public Market 1 0 0 0 0 Public Market <		Bus/Jeep Terminal	0	0	0	0	0	0	0
Hublic Market 1 0 0 0 1 Bus/Jeep Terminal 1 1 0 0 1 Total 1 1 0 0 1 Bus/Jeep Terminal 0 0 0 0 0 Total 1 0 0 0 1 Public Market 1 0 0 0 1 Public Market 1 0 0 0 0 Total 1 0 0 0 0		Total	1		0	0			8
Bus/Jeep Terminal 0 0 0 0 0 Total 1 1 0 0 1 Bus/Jeep Terminal 0 0 0 0 0 Total 1 1 0 0 1 1 Public Market 1 0 0 0 1 1 Bus/Jeep Terminal 0 0 0 0 0 0 Total 1 0 0 0 0 0 0 Total 1 0 0 0 0 0 0		Public Market	1		0	0			100
Total 1 0 0 1 Public Market 1 0 0 0 0 Total 1 0 0 0 1 Public Market 1 0 0 1 Bus/Jeep Terminal 0 0 0 0 Total 1 0 0 0 Total 1 0 0 0 Total 1 0 0 0		Bus/Jeep Terminal	0	0	0	0	0	Û	0
Public Market 1 0 0 1 Bus/Jeep Terminal 1 0 0 0 Total 1 0 0 1 Public Market 1 0 0 1 Bus/Jeep Terminal 0 0 0 0 Total 1 0 0 0		Total	1	1	0	0			8
Bus/Jeep Terminal 0 0 0 0 Total 1 1 0 1 Public Market 1 0 0 1 Bus/Jeep Terminal 0 0 0 0 Total 1 0 0 0		Public Market	. 1	1	0	0	1		001
Total 1 0 0 1 Public Market 1 0 0 1 Bushleep Terminal 0 0 0 0 Total 1 0 0 0		Bus/Jeep Terminal	0	0	0	0	0	0	0
Public Market 1 0 0 1 Bus/Jeep Terminal 0 0 0 0 Total 1 0 0 1		Total	-	1	0	0			001
Bus/Joep Terminal 0 0 0 0 0 Total 1 0 0 1		Public Market	1	0	0	0		0	0
0 0		Bus/Jeep Terminal	0	0	0	0	0	0	0
		Total		0	0	0		0	0

Table 8.2.5 Number of Public Utilities with Sanitary Toilets in the Base Year (1995) (Cont'd.)

1

Municipality	Type	No. of PU in 1995	No. of PU with Sanitary Toilets in 1995	No. of PU in Planned/On- going Project	No. of PU with Sanitary Tollets in Planned/On-going Projects	No. of PU in Base Year 1995	No. of PU with Sanitary Tollets in Base year 1995	Coverage (%)
Santo Domingo	Public Market		1	0	0		1	100
	Bus/Jeep Terminal	0	0	0	0	0	0	С
	Total			0	0	į		100
Sign	Public Market	0	0	O	0	0	0	0
	Bus/Jeep Terminal	0	0	0	0	0	0	0
	Total	0	0	Ð	0	0	0	0
Stant	Public Market	-	-	0	0		1	202
	Bus/Jeep Terminal	0	0	0	0	0	0	0
	Total			0	0	1		100
Sugpon	Public Market	0	0	0	0	0	0	С
;	Bus/Jeep Terminal	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	٥
Suvo	Public Market	0	.0	0	0	0	0	0
•	Bus/Jeep Terminal	٥	0	0	0	0	0	0
·	Total	0	0	0	0	0	0	0
Tagudin	Public Market		:	0 :	0	1		100
·	Bus/Jeep Terminal	0	С	0	0	. 0	0	0
	Total			0	0	-		8
Vigan (Capital)	Public Market	-	4	0	0	1		100
	Bus/Jeep Terminal	9	9	0	0	9	9	100
	Total	7	7	0	0	7	7	100
	Public Market	61	1.1	0	0	19	17.	68
Provincial Total	Bus/Jeep Terminal	1.1	11	0	0			001
· ·	Total	30	28	0	0	30	28	93

Note: PU - Public Utilities

Table 8.2.6 Household Coverage in Phase I Provided by Existing Facilities in the Base Year (Household Toilets)

VIP No. of HAs Served Households Mark North Mark Pour Flunds Total North																
Float Float Float Licenter Total No of HRA Float Milestrone Total Milestrone	Area	- A	417				Served Hou	sebolde		Seeved Porns	-			Served Households	oveholds	
Treel			- Tr	 - -	No. of HHs	1 1 1 2 1 1	4%			ndo i osuas:	Ī	No. of HHS				
Uchban 7 145 59 211 265 3 55 80 Total 7 441 164 610 771 0 55 80 Total 7 541 258 258 161 161 61 70 Renal 7 546 258 160 161 6 100 100 100 Renal 7 167 26 167 26 167 26 167 26 167 26 167 26 167 26 167 26 167 26 167 26 167 26 167 26 167 26 167 26 168 26 168 26 168 26 168 26 168 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 2			3111			Flush		VIP Latrine		Number	ć,		Plush	Four Flush	VIP Latrine	Total
Name		14.5	65	213	265	٤.	85			1,129	80	282	£4	51	12	75
Tensi		411	8	. 610	577	0	. 53	326		3,403	79	×14	0	20	45	7.5
Urban C		355	25K	821	1,018	1	35	2.5	:	4,532	20	1.096	-	51	24	25
Rumi 6 916 25 944 991 0 92 3 591 Trast 60 1,079 1,079 1,154 0 94 5 14 96 Uchan 552 1,079 1,275 1,340 5 74 4 96 Rural 1701 2,468 137 2,775 3,340 5 74 4 86 Rural 1701 2,468 136 146 5,67 14 67 86 17 <t< td=""><td></td><td>163</td><td>0</td><td>.163</td><td>163</td><td>0</td><td>001</td><td>0</td><td>-</td><td></td><td>100</td><td>173</td><td></td><td></td><td>0</td><td>76</td></t<>		163	0	.163	163	0	001	0	-		100	173			0	76
Treat 60 1,0779 259 1,107 1,1154 0 944 25 95 95 95 95 95 95 95 95 95 95 95 95 95		916	ž	9776	166	0	35	3		5,235	\$6	1,041	0		€:	16
Unman 562 1,004 275 1,902 1,927 29 55 14 90 Ramal 170 2,468 137 2,775 3,340 5 74 4 83 Total 22 1,45 2,475 3,340 1,4 6 49 97 Urhan 4 1,15 1,46 2,86 2,96 1,6 4 97 Kurh 4,99 1,238 73 1,600 1,674 3 4 87 4 87 Kurh 3,120 1,234 1,676 1,57 3 1,674 3 4 87 4 87 Kurh 1,100		1,070	χ,	1,107	1,152	0	76	2			ક	1.214	0		2	16
Runal 170 2.468 137 2.775 3.340 5 74 4 85 Treat 772 3.532 413 4677 2.527 14 67 8 9 Urhan 42 1.35 1.45 1.450 1.578 3 8 9 9 9 9 Runal 451 1.454 2.16 1.706 1.973 3 1.1 9		1,064	276	1,902	1,927	65	\$ \$	14			\$	2,054		\$2	13	63
Tend I 772 3,572 413 4,677 5,267 146 6,77 8,80 15 4,81 6,77 3,80 16 4 8 80 97 Rund 4,91 1,336 7,84 1,650 1,670 1 4 8 </td <td></td> <td>2.468</td> <td>137</td> <td>2,775</td> <td>3,340</td> <td>S</td> <td>7.4</td> <td>7</td> <td></td> <td></td> <td>83</td> <td>3,533</td> <td></td> <td></td> <td>7</td> <td>79</td>		2.468	137	2,775	3,340	S	7.4	7			83	3,533			7	79
Uchan 4 136 146 236 256 17 40 40 97 Runal 49 1,358 73 1,480 1,673 3 81 4 88 Troad 205 1,290 32 1,534 1,543 3 76 1,9 88 Runal 111 3,815 244 4,070 4,152 0 92 6 98 Runal 216 5,114 23,4 4,070 4,152 0 92 6 98 5 98		3.532	413	4.677	5.267	14	67	×			68	5.587	٤١		1	84
Runal 49 1,358 73 1,680 1,678 3 81 4 88 Urban 205 1,494 219 1,766 1,973 31 76 11 90 Gurha 11 3,159 30 1,549 4,156 1,54 7 1,49 1,		136	. 146	286	562	-	97				76	310		4	-47	36
Traja SSi 1,494 219 1,766 1,973 31 76 11 90		85E'l	73	1.480	1.678	1	81			7,738	XX	1,789			4	K3
Urban 205 1,299 39 1,543 1,568 13 83 2 98 Rund 111 3,815 2,44 4,070 4,152 0 92 6 98 Trond 216 5,714 2,814 4,070 4,152 0 92 6 98 Urban 1271 2,714 2,714 2,714 2,714 2,714 9		1494	219	1,766	1,973	F.	97			9,187	8	2.099			10	28
Rural 111 3,815 244 4,070 4,152 0 92 6 98 Torial 216 5,114 283 5,613 5,720 4 80 5 6 98 Urban 74 1,272 33 1,377 1,386 5 91 5 66 98 Rural 127 8,235 271 1,377 1,382 2 93 3 99 Urban 172 88,3 188 1,244 1,345 1,346 1,364 1,364 1,364 1,466 1,46 93 3 99 Urban 172 88,3 1,244 1,346 1,346 1,464 1,4		1,299	39	1.543	1,568	13	83	3		7.746	86	1,672	12	78	2	36
Treat 216 5,114 28,3 5,613 5,720 4 89 5 98 Urban 74 1,272 31 1,377 1,398 5 91 2 98 Rural 1,47 1,272 31 1,377 1,398 5 91 2 98 Trast 2,21 8,255 281 8,757 8,482 2 93 3 99 Urban 172 883 189 1,244 1,364 13 66 14 93 Urban 170 1,031 189 1,244 1,364 66 14 94 Rural 201 1,031 189 1,244 1,364 66 14 94 Rural 302 46 451 451 19 35 16 35 100 Rural 400 452 1,524 451 16 94 95 100 Rural </td <td></td> <td>3,815</td> <td>2445</td> <td>4.070</td> <td>4,152</td> <td>0</td> <td>36</td> <td>9</td> <td></td> <td>21,649</td> <td>%</td> <td>4,409</td> <td></td> <td></td> <td>9</td> <td>92</td>		3,815	2445	4.070	4,152	0	36	9		21,649	%	4,409			9	92
Urban 74 1,272 31 1,374 1,398 5 91 2 98 Rural 147 6,983 250 7,380 7,484 2 91 3 99 Total 127 8,835 189 1,244 1,3	-	5,114	283	5.613	5,720	77	K9	S		29,195	X	6,081			V	Š
Rural 147 6,983 250 7,380 7,484 2 91 3 99 Total 221 8,255 281 8,757 8,882 2 91 3 99 Uchan 172 883 189 1,244 1,344 13 66 14 93 Rural 101 1,048 0 1,149 1,895 5 6 14 93 Tocal 273 1,931 1,89 2,345 3,239 8 60 6 14 93 Uchan 130 205 451 451 452 40 45 15 90 97 10 10 Wurlal 200 724 1,918 2,145 19 35 36 89 36 89 Gurlan 0 65 16 451 451 452 10 89 36 36 36 36 36 36 36 <td></td> <td>1,272</td> <td>33</td> <td>1.377</td> <td>1,398</td> <td> 5</td> <td>16</td> <td>. 2</td> <td></td> <td>7,084</td> <td>X6</td> <td>1,471</td> <td>5</td> <td></td> <td>2</td> <td>94</td>		1,272	33	1.377	1,398	5	16	. 2		7,084	X6	1,471	5		2	94
Total 221 8.255 281 8.757 8.882 2 93 3 99 Urban 172 883 189 1.244 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.344 1.345 5 5 6 14 9,3 Rural 101 1.048 20 45 45 45 6 6 74 Luran 1.80 20 45 45 40 45 73 99 Mural 40A 741 773 1.918 2.145 19 35 36 89 Mural 40A 744 773 1.918 2.145 19 35 32 91 Mural 40A 1.449 2.349 2.349 2.349 36 32 100 Mural 40A 40A 40A 40A 40A 40A 40A		6,983	250	17,380	7,484	č	16	3		39,642	66	266'2			1	02
Urban 172 883 189 1,244 1,344 1,34 <th< td=""><td></td><td>8.255 F</td><td>2×1</td><td>×.757</td><td>8.882</td><td></td><td>66</td><td></td><td></td><td>46,726</td><td>86</td><td>9.463</td><td>2</td><td>128</td><td>3</td><td>93</td></th<>		8.255 F	2×1	×.757	8.882		66			46,726	86	9.463	2	128	3	93
Rural 101 1,048 0 1,149 1,895 5 55 61 61 Toral 273 1,931 1,89 2,393 3,239 8 60 6 72 Urban 180 205 66 451 454 40 45 15 99 Rural 404 731 1,918 2,145 19 35 36 35 36 39 Gurban 584 946 839 2,369 2,599 22 36 35 39 30 Gurban 4 1,499 23 1,528 1,528 0 36 32 30 30 ar Urban 30 76 13 1,607 0 97 2 100 ar Urban 30 264 10 10 24 9 Author 2 348 54 0 91 4 9 <		883	180	1,244	1.305	5	8	14		6,312	10	917'	12		13	7.3
Tronal 273 1,931 189 2,393 3,239 8 60 6 74 Urrhan 180 205 46 451 454 40 45 15 99 Runal 40a 741 773 1,918 2,145 19 35 36 89 Total 584 946 8/39 2,369 2,259 22 36 89 Runal 4 1,499 23 16 81 0 89 20 100 Runal 4 1,564 39 1,607 1,609 0 97 2 100 Runal 32 466 13 1,607 1,609 0 97 2 100 Runal 32 466 13 1,607 46 94 96 Total 32 466 10 46 97 11 100 Runal 10 224 10 <td>_</td> <td>1.04X</td> <td>0</td> <td>1,149</td> <td>1,895</td> <td>3</td> <td>\$5</td> <td>0</td> <td></td> <td>5,917</td> <td>61</td> <td>2,012</td> <td></td> <td></td> <td>Ó</td> <td>57</td>	_	1.04X	0	1,149	1,895	3	\$5	0		5,917	61	2,012			Ó	57
Urban 130 205 46 451 454 40 45 15 45 45 45 45 45 45 45 19 35 45 15 45 19 35 45 15 89 35 45 89 35 99 89 35 99 89 35 91 80 80 35 91 80	_	156	180	1,01,5	3,239	×	8	ų		12,229	74	3,448	8		>	\$
Runal 400a 741 773 1,918 2,145 19 35 36 89 Total 584 946 849 2,369 2,369 22 36 32 91 Urban 6 16 81 81 0 80 20 100 Runal 4 1,564 39 1,607 1,609 0 97 2 100 Chhan 30 76 13 1,607 1,609 0 97 2 100 Runal 2 390 95 487 541 0 97 2 100 Chran 30 95 487 541 0 97 1 100 Chran 32 466 108 666 5 71 1 10 Chran 32 487 541 0 91 4 96 Chran 0 22 10 1	-	20<	96	157	45.4	40	45	15		2,582	66	184		27	141	63
Total SSA 946 N39 2,369 2,299 36 36 32 91 Urrhan 6 65 16 N1 R1 0 N9 20 100 Rurh 4 1,499 23 1,526 1,528 0 98 2 100 Total 30 76 13 1,607 1,609 0 97 2 100 Rurn 30 76 13 1,10 119 25 64 11 100 Total 32 390 95 487 541 0 77 1 10 Total 32 466 108 606 5 71 1 10 Rural 0 224 11 235 245 0 91 4 95 Total 0 482 20 50 91 4 96 Total 0 482 <t< td=""><td></td><td>741</td><td>773</td><td>816.1</td><td>2,145</td><td>161</td><td>335</td><td>36</td><td></td><td>10,327</td><td>80</td><td>2,273</td><td></td><td></td><td>44</td><td>×</td></t<>		741	773	816.1	2,145	161	335	36		10,327	80	2,273			44	×
Urban 0 65 16 81 81 0 80 20 109 Rural 4 1,499 23 1,528 0 98 2 100 Total 30 76 13 110 159 25 64 11 10 Rural 2 390 95 487 541 0 72 18 90 Total 32 466 105 606 541 0 72 18 90 Total 32 466 105 606 541 0 72 18 90 Rural 0 224 11 235 245 0 91 4 95 Total 0 482 20 502 519 9 4 97 Total 0 706 33 706 93 4 96 Winth 0 706 33 706		946	658	2.369	2.590	22	34.			12,909	16	2.757			O.	86
Rural 4 1,499 23 1,528 0 98 2 100 Tenal 4 1,564 39 1,607 1,609 0 97 2 100 Urban 30 76 13 119 25 64 11 100 Rural 2 390 95 487 541 0 72 18 90 Urban 0 224 11 235 245 0 91 4 96 Rural 0 724 11 235 245 0 91 4 97 Total 0 706 31 737 764 0 93 4 97 Wurlal 100 893 38 1,082 1,082 3 4 97 Kurlal 110 2,680 746 3,536 3,536 3,539 3 76 21 100	_	9	16	18	18	0	80			430	001	9X		92	61	3
Total 4 1.564 39 1.607 1.609 0 97 2 100 Urban 30 76 13 119 119 25 64 11 100 Rural 32 390 95 487 541 0 72 118 90 Total 32 466 10× 606 660 5 71 16 92 Urban 0 224 11 235 245 0 91 4 97 Total 0 706 31 737 764 0 93 4 97 Urban 100 893 89 1.082 1082 9 83 4 97 Kural 110 2.680 746 3.536 3.536 3 75 100		1,499	23	1.526	1,528	0	86		!	X,298	100	1,625			-	94
Urban 30 76 13 119 25 64 111 150 Rural 2 390 95 487 541 0 72 18 90 Total 3.2 466 10x 606 660 5 71 16 92 Urban 0 224 11 235 245 0 91 4 96 Rural 0 482 20 802 519 0 93 4 97 Toval 0 706 31 737 764 0 92 4 96 Urban 100 891 89 1,082 100 83 4 97 Kural 110 2,680 746 3,536 3,536 3,539 3 76 21 100	_	1.564	30	1,607	1,609	Ó	47			8.728	100	1,711	0		ť	76
Rural 2 390 95 487 541 0 72 18 90 Torial 32 466 10x 606 660 5 71 16 92 Urban 0 224 11 235 245 0 91 4 96 Rural 0 482 20 502 519 0 93 4 97 Toval 0 706 31 737 764 0 92 4 96 Kural 100 891 3,002 1,002 93 3 100 Kural 110 2,680 746 3,536 3,539 3 76 21 100		76	. 13	119	611	52	\$			209	100	971	ì		01	70
Total 32 466 10x 606 650 5 71 16 92 Urban 0 224 11 235 245 0 91 4 96 Rural 0 482 20 502 519 0 93 4 97 Toval 0 706 31 737 764 0 92 4 96 Urban 100 893 89 1,082 9 83 8 100 Rural 110 2,680 746 3,536 3,539 3 76 21 100		300	\$6	487	541	Ó	77			2.693	06	575	0		17.	KS.
Urban 0 224 11 235 245 0 91 4 96 Rural 0 482 20 502 519 0 93 4 97 Total 0 706 31 737 764 0 92 4 96 Urban 100 893 89 1,082 1,082 9 83 8 100 Rural 110 2,680 746 3,536 3,539 3 76 21 100		1997	ē	909	099	٧	71	91		3,300	35	107	5	949	151	38
Rural 0 482 20 502 519 0 93 4 97 Towal 0 706 31 737 764 0 92 4 96 Urthan 100 893 89 1,082 1,082 9 83 8 100 Rural 110 2,580 746 3,536 3,539 3 76 21 100		224	Ξ	235	245	0	16	7		1.197	96	250	٥	98	4	io
Trenal 0 706 31 737 764 0 92 4 96 Urthan 100 893 89 1.082 1.082 9 83 8 100 Kural 110 2.680 746 3.536 3.539 3 76 21 100		482	20	203	618	0	16	7		2,657	46	C#>	0	88	7	26
Urhan 100 893 89 1.082 1.082 9 83 8 100 100 Kural 110 2.680 746 3.536 3.539 3 76 21 100 1		706	31	737	764	0	7.6	4		3,854	96	90x	0	88	7	16
110 2.680 746 3.536 3.539 3 76 21 100		1.6X	6×	1.082	1.082	6	X3	×		5,278	100	1,139	6	18L	×	56
24.5	-	2.680	746	3,536	1,539	~	9/	21	8	18,723	100	3,717		72	20	95
219] 5573 855 4518 4521 54 77 18 100		3.572	835	4.61X	4,621	5	7.7	18		24,001	90	4.876	7	73	17.	Ġ



Table 8.2.6 Household Coverage in Phase I Provided by Existing Facilities in the Base Year (Household Toilets) (Cont'd.)

Pluck			No. of Hou	sehold Serve	No. of Household Served by Existing Facil	z Facilities			Cove	Coverage in 1995						Coverage in 2000	900	
Fired	Municipality	Area		1	97,7				Served Ho	useholds		Served Popula				Served F	Served Households	
Checker A Checker A			Flush	101	717	Total	No. of HHs		%				T	V0. 01 H H S		Decree Claush	Poster Clark With Location	Total
Horizon				T. Person	,			Flush	Pour Flush		Tota	Number			r Iuwa		VAL LABORITOR	
Figure Columbia	Nachukel	Uchan	7	131	0	135	14.1	~	. 92			688	ż	\$	er.			ŝ
Treat		Rural	6	327	23	350	\$29°	0				1,801	\$	654	Ó		- -	J
Treati		Lores	1	XX		485	767	-	:			2,489	63	806	0	47		\$
Total		34	8	044		\$ 0	C42	7				2,760	86	573	9	7.	7	ઠ
Treat	יישועשים וו	Pare l	Ş	4.5.4		5.884	6.801					30,294	78	7,222	v.	76	0 9	×
Urban 11 225 40 256 256 0 84 15 99 1,567 99 Renal 1 424 1,054 1,172 0 57 77 74 15 94 15 1,567 94 15 1,567 94 15 1,567 94 15 1,567 94 15 1,567 94 15 1,567 94 15 1,67 94 15 1,67 94 15 1,67 94 15 1,67 94 15 100 1,67 100 10 <t< td=""><td>more</td><td>10.2</td><td>1057</td><td>1,00</td><td></td><td>6.414</td><td>7,343</td><td></td><td></td><td></td><td></td><td>33,054</td><td>87</td><td>7,795</td><td>\$</td><td>77</td><td></td><td>X</td></t<>	more	10.2	1057	1,00		6.414	7,343					33,054	87	7,795	\$	77		X
Rumin O GGO 414 1,054 1,172 O GS TT GS GS TT GS GS TT GS GS		i i	-	224		266	269					1,367	66	286	0	70		3
Trong Tron	Simular Simula Simular Simular Simular Simula Simula Simula Simula Simula Simu	l miles	c	9	4	1.054	1,132					5,612	16	1,204	0	53	2	Æ
Urban S 261 77 2274 2275 2 9 96 3 100 1,344 100 1,344 100 1,444 100 1,444 100 1,444 100 1,444 100 1,444 100 1,444 100 1,444 100 1,444 100 1,444 100 1,444		Torat	-	865		1,320	1,401					6.979	な	1.490	٥	88		ξ
Furnil 19 1,584 104 1,707 1,707 1,100 1,586 1,00 1,586 1,00 1,586 1,00 1,586 1,00 1,586 1,00 1,000	Salvedo	Liman	~	261		273	273		1			1,344	8	360	~	8		ż
Triant		Rural	61	1.5%4		1,707	1,707					8,655	8	1 795		ž		9.5
Urban O 296 29 325 416 O 71 7 78 1,796 78 Todal 0 307 766 0 40 0 40 1,642 1,142 1,142 1,142 1,142 1,142	2.LIT	Total	75	X		0%6'1	086,1					0666	00	2.085				95
Runal 0 307 756 0 40 0 40 1,642 40 Total 0 503 29 652 1,182 0 51 2 53 3,438 53 1,1 Urban 10 128 0 1,182 1,221 2 81 0 93 3,438 53 1,1 Wendl 24 1,111 0 1,145 1,369 2 81 0 93 404 73 1,1 Wendl 24 1,111 0 1,145 1,769 2 86 0 93 40 93 1,1 Wundl 24 1,111 0 1,145 1,769 2 86 0 93 3,459 93 1,1 Wundl 25 616 57 73 4 87 7 93 1,1 93 1,1 Wundl 170 1,23 3,579 <t< td=""><td>San Emilio</td><td>Urhan</td><td>o</td><td>8,</td><td></td><td></td><td>416</td><td></td><td></td><td></td><td></td><td>1.796</td><td>×</td><td>£117</td><td>٥</td><td></td><td></td><td>7.3</td></t<>	San Emilio	Urhan	o	8,			416					1.796	×	£117	٥			7.3
Total O 603 20 672 1,182 O 51 672 672 1,182 O 93 6.93 63 6.94 93 1.11 O 1,182 O 1,000 1,122 0 1,182 O 1,000 1,11 O 1,221 2 81 O 93 609 93 609 93 1,11 O 1,11 O 1,11 O 1,12 <td></td> <td>Rum</td> <td>0</td> <td>307</td> <td></td> <td></td> <td>766</td> <td></td> <td></td> <td></td> <td></td> <td>1.642</td> <td>\$</td> <td>Š</td> <td>٥</td> <td></td> <td></td> <td>ž</td>		Rum	0	307			766					1.642	\$	Š	٥			ž
Urban 10 128 148 7 86 0 93 699 93 Bural 24 983 0 138 148 7 86 0 93 4947 82 11 Yorlai 34 1,111 0 1,145 1,221 2 81 0 82 4947 82 11 Kural 24 34 1,111 0 1,145 1,269 2 81 0 82 649 82 901 82 649 82 81 0 84 56,46 84 1,1 83 84 1,1 1,1 0 1,14 901 84 84 84 1,1		Total	Ö	609			:					3,438	53	1,247	٥			15.
Runal 2.4 98.3 0 1,007 1,221 2 81 0 82 4,947 82 1,1 Fodal 3.4 1,111 0 1,148 1,269 2 81 0 84 5,646 84 1,1 Formal 171 680 0 1,75 1,98 1,2 5 0 83 3,765 93 8,644 84 1,1	Can Esteban	Liman	Ö	128								669	60	156	9			X
Total 34 1,111 0 1,145 1,369 2 81 0 84 5,646 84 1,14 Urban 24 151 0 175 108 12 76 0 88 901 901 88 901 901 88 901 901 88 901 901 88 901 901 88 901 901 88 901 901 88 901 901 88 901 901 88 901 901 901 901 901 901 901 9		Rural	75	686		_	_					7.947	82	1.302	[1
Uten 24 151 0 175 108 12 76 0 88 901 88 901 88 901 83 901 83 901 83 901 83 83 901 83 83 901 83 83 901 83		Total	79.	1.111									72	1,45%	2	76		73
Rural 17 6800 0 697 753 2 90 0 93 3,755 93 Total 41 871 0 872 951 4 877 0 0 0 2 4,664 92 1,1 Urban 25 616 53 694 707 4 877 7 0 0 2 4,664 92 1,1 Kurba 25 616 53 3,579 4,319 5 77 1 83 14,872 80 Urban 21 188 10 219 10 86 5 100 1,193 100 Rural 20 1,200 1,432 1,013 4 63 8 74 7,136 74 2 Rural 101 1,388 1,543 2,132 5 66 7 7 7 7 7 7 2 Rural	Van Haalfones	Lishan	73	151									XX	20%		7.3		코
Total 41 831 9 872 951 4 877 9 4,664 92 1,1 Urban 256 616 53 604 707 4 87 7 98 3,332 98 Rural 174 2,711 0 2,885 3,612 5 75 0 80 1,482 80 3,332 98 3,332 98 3,332 98 3,332 98 3,332 98 3,332 98 44 83 1,184 83 44 87 77 1,482 80 3,332 98 44 83 44 83 8 77 1,193 100 80 80 1,193 100 80 80 1,193 44 83 8 77 1,193 80 77 2,1 2,2 2,2 1,2 1,193 1,10 80 1,193 1,193 1,1 1,1 1,193 1,1 1,1	San trachonar	Pared	17	38								3	56	793				ž
Urban 25 616 53 604 707 4 87 7 98 3,332 98 Rund 174 2,711 06 2,885 3,612 5 75 0 NO 14,852 80 3 Total 1794 2,711 06 2,885 3,612 5 77 1 83 44 Total 1990 3,272 5,3 3,579 4,119 5 77 1,193 100 44 Total 101 1,38 1,54 1,643 2.19 6 6 7 7 7,136 74 2,2 Rund 101 1,38 1,54 1,643 2,132 5 6 7 7 7,146 74 7,146 7 7 7 7 7 7 2,4 2,4 2 Rund 5 1,042 2,13 2,13 3 3 4 3 4		Total	7	831		ļ						1799'17	65	1.00	4		0	7.3
Ruml 174 2,711 0 2,885 3,612 5 75 0 NO 14,852 NO 14,852 NO 14,852 NO 14,852 NO 14,852 NO 14,814 NO NO 14,814 NO NO <td>San Juan</td> <td>Urban</td> <td>Y,</td> <td>919</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ž</td> <td></td> <td>3,332</td> <td>ક</td> <td>740</td> <td></td> <td></td> <td></td> <td>93</td>	San Juan	Urban	Y,	919						ž		3,332	ક	740				93
Total 199 3,372 53 3,579 4,319 5 77 1 83 14,144 83 44,145 Urban 21 1188 10 219 219 10 86 5 100 1,193 100 Rural 80 1,200 1144 1,424 1,913 4 63 8 74 7,136 74 2 Total 101 1,388 154 1,643 2,132 5 65 7 77 7,136 74 2 2 2 7 77 1,136 74 2 2 2 7 77 1,136 7 </td <td></td> <td>Kum</td> <td>174</td> <td>117.2</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ο×</td> <td>1881</td> <td>Ÿ.</td> <td></td> <td></td> <td>7.5</td>		Kum	174	117.2			3						ο×	1881	Ÿ.			7.5
Urban 21 TAX 10 219 10 86 5 100 1.193 100 Rural NO 1.200 1.4424 1.913 4 63 8 74 7.136 74 2 Total 101 1.348 1.4424 1.913 4 63 8 74 7.136 74 2 Total 20 1.0 1.543 2.132 8 7 <th< td=""><td>ಮಾಗ್</td><td>Total</td><td>8</td><td>133</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8</td><td>009'7</td><td>1</td><td></td><td></td><td>×</td></th<>	ಮ ಾ ಗ್	Total	8	133									8	009'7	1			×
Rural NO 1,200 1,4424 1,613 4 653 8 74 7,136 74 2 Total 101 1,388 154 1,643 2,132 5 65 7	San Vicente	Urban	22	1.88									8	234				3
Total (1) 1,38K 154 1,643 2,132 5 65 7 77 8,329 77 2 Urban 2N 279 4M 355 363 363 N 77 13 9K 1,696 9K Rural 3N 2,227 4M 2,104 0 89 0 89 0 89 2 Urban 20 20 1,928 2,587 1 87 2 90 1,192 90 2 Kurban 20 20 20 88 0 88 0 66 1,192 96 Treat 1,24 2,01 7 1,928 2,264 6 88 0 95 1,1707 95 2	<u>.</u>	Rural	8		-	-	1						7	2.040			4 10	5
Urban 2N 279 4N 355 363 N 77 13 9N 1,696 9N Rural 5 1,948 0 1,953 2,194 0 89 0 89 10,232 89 2 Tobal 33 2,227 48 2,104 1 87 2 90 11,928 90 2 Greba 20 2,24 2,33 9 88 0 96 1,192 96 Form 1,24 2,01 7 1,928 2,034 6 88 0 95 11,792 95 2 Treat 1,44 2,01 7 2,152 2,264 6 88 0 95 11,707 95 2,27	272	Total	ē										77	2.274				1
Rural S 1948 0 1953 2.194 0 89 0 89 10.232 89 2 Total 33 2.227 48 2.108 2.557 1 87 2 90 11.928 90 2 Green 20 2.24 2.33 9 88 0 96 1,192 96 Kurel 1.24 1.797 7 1.928 2.031 6 88 0 95 10.515 95 2 Total 1.44 2.001 7 2.152 2.264 6 88 0 95 11.707 95 2	Santa	Urhan	27										χ6	381			73 13	9.3
Total 33 2.227 48 2.308 2.557 1 87 2 90 11,928 90 2 Urban 20 204 0 224 233 9 88 0 96 1,192 96 Kural 124 1.707 7 1,928 2.034 6 88 0 95 10,515 95 2 Trans 1.44 2.001 7 2,152 2,264 6 88 0 95 11,707 95 2,264		Rural		-									6%	2,330			0 88	K,3
Urban 20 204 0 224 233 9 88 0 96 1,192 96 Kural 124 1,707 7 1,928 2,031 6 88 0 95 10,515 95 2 Trans 1,44 2,001 7 2,152 2,254 6 88 0 95 11,707 95 2,7		Total	33					-	8				\$	2.720	_			×
Kural 1,24 2,001 7 1,928 2,034 6 NS 0 95 10,515 95 Trans 1,44 2,001 7 2,152 2,254 6 NS 0 95 11,707 95	Kapta Catalina	Cirban	20										96	248			0	ક
(144) 2 (0) 7 2.152 2.264 6 MM 0 95 11.707 95 2.	,	Rural	7			_							56	2,129	9			١٥
	<u> </u>	Total	77.	1									95	2,377			84 0	15

Table 8.2.6 Household Coverage in Phase I Provided by Existing Facilities in the Base Year (Household Toilets) (Cont'd.)

		No. of Hou	No. of Household Served by Existing Fa	d by Existing	Facilities			Cover	Coverage in 1995						Coverage in 2000	8	
Municipality	Area		Pour	VIP.				Served Households	splotes		Nerved Population		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Served	Served Households	
		45 25 25 25 25 25 25 25 25 25 25 25 25 25	Flush	Latrine	30	No. of HHS	400.00	76 770 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T. 1710 T.	/10 Tt	L Control	N. see		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	Donne Librer	West Plack VIP applea	T. Agra
							1000	Tour Flush	A TOTAL LANGE						TOTAL LINE	7,311,111	
Santa Cruz	E CL	=	724	11	XIX	×v×	-	83		7		3	C7A	1	8/		
	Rus	(*)	4,420	322	4.785	5,101	=	82	¢			26	5,425		ź	c	N.
	Total	75.	1	300	5,507	5,969		9%	7		30,22K	40	6.350	1	ž	પ્ર	XX
Santa Lucia	Urhan	07	252	24	316	11.7	6	×5.	ų		21.6.1	7.3	1667	9	55	8	40
a. 10 mm 1	Rura	7.7	2,732	767	3.276	1,651	-	7.5	4		18,041	90	3,855	1	1.2	13	XS
	Total	K7	2.9K4	521	3,592	1,082	č.	73	- 1	×		××	7157	2	69		83
Santa Maria	Urhan	145	159	ν.	714	77.7		6%	3.	i		86	177	8			8
	Rura	S	3.7XZ	5	3.867	1.175	7	16	+=	- 2		5	1,382			-	××
- Salari	Total	×9	217.5	×	4,581	1,907		96	e:		-	66	5.153	1	98		89
Santiago	Urhan	35.	617	13	436	242	=	\$6	31	66		8	797	1	06		26
,	Rural	165	1,322	727	2,142	2,485		83	6		219'11	9x	3097	23			82
	Total	865	1.741	939	2,578	7,927		65	×			88	3,072	.61	45		7.8
Santo Domingo	Urban	7.	055	Ó	1.4.	577	2	98	0	80	208.2	š	612	2			35
1	Rural	₹	3.291	С	3,349	3,705		6×	0			8	3,882	1			X6
-	Total	72	3,841	ō	1.913	4,282		06	0		20.397	16	1,494	2			87
Sagay	Urban	0	0	jo .	0	0		0	0			0	0	0			Q
	Rura	0	267	0	267	361	0	74	0		सम्द्र'।	7.4	381	0	70		07
2000	Total	0	797	0	267	361	0	74	0			7.4	181	0			70
Sinait	Urban	35	\$10	7	195	195	9	66	1			100	009	6			3
	Rumi	3	3,266	123	3.692	052.4	0	171	01		17,749	7.8	4.496	0			82
	Total	38	3.785	061	4,253	118.1	1	79	6			XX	5.096	1			x3
Sugport	Urban	0	£8	ζ×	170	192	0 -	43	137	6X .	698	68	202	Ü			×
	Rural	0	118	162	230	323	10.00	37	05		1.575	87	345	0			8C
	Total	0	102	510	150	515		10	48			12X	544	0	22		85
oáns.	Urban	\$	861	<u>8</u>	309	309	2	148	77.	100	1.790	1001	327	2	19	32	76
	Rural	11	697	101	1,011	1,335		52	23		5,356	76	1.406	1	50		77
	Total	91	¥0%	607	1.320	179.7	-	54	25			308	1,733	-			76
Tagudin	Urhan	146	583	99	79.5	CXX.	16	44	7		4,319	,6X	613	16			85
· 	Rural	\$61	3.814	418	1.427	8.009		76	×	XX	14,597	×	5.250	7	72		84
	Total	ir.	107	TXT	5.222	X6X,2	4	7.5	×		28,916	6×	6,213	۶.			84
Vigan (Capital)	Urban	500.1	5,618	ALIX.	7.071	7.768		72	9			16	8.263	12	89		¥
-	Rural	٥	0	0	o	0	0	0	0		o	0	0	0	0		O
	Total	1 005	\$19.5	अल	7,071	7.76x	£1	721	Ÿ			16	8,263	ü	8	S	ž
	Urhan	2,850	18,041	1,974	23.776	25,221		. 75	X		123.807	ij	26.771	11	71		6×
Provincial Total	Rucal	2.783	64.201	SXYS	72.669	K1.734	3[.79.	7	68		88	86.534	3	74	7.	84
	Total	2793	84,144	7,659	5717'96	106,955		78	7			ક	113,305!	\$			58

Table 8.2.7 Public School Students and Public Utilities Coverage in Phase I Provided by Existing Facilities in the Base Year

	Sed No. of Students	Coverage in 1995	1995	Coverage in 2000	2		Coverage in 1995)	Coverage in 2000	
Municipality	that can be Served by	Total No. of Public	129	Total No. of Public	fé	No. of PU in	No. of PU with Sanitury Toilets	%	No. of PU	No. of PU with	18
	Base xear (1995)	School Students		School Students		Bane x car	In Dase Tear (1775)	ľ			
Atilem	1,333		100	1.460			0	2	3 (5 6
Banavovo	1.340		1001	1,525		0	0	5	o		
Rapiav	3.552		81	4.167			3	8	۲,	8	8
Barreton	276		901	261.2		0	0	Ó	0	Ç	
Cabusas	4.450	4.612	8	5,228			1	100	1	-	8
Coordinate	300.		×	10,620		c,		100	C è	C &	8
Cancon	7775		8	2.640	8		0	0	0	0	٥
Catavai	009	605 %	99	3,019		-	0	0	cı	0	٩
Caliminad	058		65	1,688		0	0	0	0	0	٦
C An Differ	635		100	622		0	0	0	0	0	٦
7. Oct 1 11.21	769		00	797		0	0	0	0	0	٥
Clandon	NA E	3 466	٤	4.761			1	100	1		8
Magsingai	0000		ľ	1140	Ĺ	c	0	0	0	0	0
Nagbukei	161.1	161.1	l					8	2	C1	202
Narvacan	8,453		3					٤	-		8
Quinno	1.100	-			1	-		3			8
Salcedo	2,050	2			ı		7	3			
San Emilio	007	1.			-	0	0	5	5	٥	
San Esteban	1,279		100	1,435		0	0	ō	٥	0	
San Helfonso	449				84			8	-	- - -	3 8
San Juan	980.8	S		2.797		-1		<u>§</u>	-		3 3
San Vicente	006	-		0+9'1		1 1	1	<u>8</u>	-		3
Conta	2.339	2,339		2.608		1	1	100	١		8
Cont. Cotalion	0>11	6	١.			0 !!	0	0	0	0	<u> </u>
Carta Cens	3,650					1	l	100	1	1	8
Capta Lucia	1009	4				-		100		.,	<u>_</u>
Soots Mans	5,452	5.452	100	680'9	8	1	1	20	1	-	8
Continuo	058.	64		3.479	ES 6	1	0	0		0	٥
Spare Domingo	260 7			869.7	ľ	1	•	100	-	-	3
Stopp	300					0 5	O	0		0	
Vince	\$ 520	5.520	-	6,217		-	-1	100	2		8
Sugar, S	009		L		88	0	0	0	0	0	٥
iodánci	1 500	1 0x7		2			0	0	0	0	٥
OANG	006.4		\ <u>\</u>		75			8	_	-1	201
i aguain	31.01				L	7	2	8	>0	٤	88
Vigan (Capital)	26.1.01	\(\frac{1}{2}\)			1000		00	33	,	λ.	×
Provincial Total	63,917	107	87	125,334			87			C .	

8.3 Projection of Frame Values

8.3.1 Review of Past Population Development and Population Projection

(1) Review of past population development

Characteristics of past population development
 Major statistical data of past population development are shown in Table 8.3.1 in
 which urban and rural population are adjusted by PPDO to reflect present conditions.
 Provinces presently belonging to CAR are excluded from the regional population.

Table 8.3.1 Past Population Development

		То	tal	Urt	oan	Rui	al
Area	Description	1980	1920	1980	1990	1980	1990
Region I	Population	2,954,340	3,550,606	733,313	1,346,213	2,221,027	2,204,393
	Growth Rate	1.9	%	6.3	1%	-0.1	%
flocos Sur	Population	443,591	519,930	109,546	123,597	334,045	396,333
	Growth Rate	1.6	%	1.2	2%	1.7	%
	Percentage 1/	15.0%	14.6%	14.9%	9.2%	15.0%	18.0%

Note: 1/ Provincial population percentage to regional population

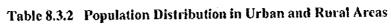
During the census decade from 1980 to 1990, the following population development was observed:

- The province recorded 1.6% of average annual growth rate which was almost equivalent to that of the region at 1.9%.
- Percentage of provincial population to the regional population slightly decreased from 15.0% in 1980 to 14.6% in 1990 affected by urban population behavior.

The region is classified as an out-migration group in the country. However, higher growth rate of rural population in the province than that of the region revealed that the migration was brought from neighboring mountainous provinces. While, lower growth rate of urban population in the province compared to that of the region coincides with the conservative economic activities in the province as discussed in Chapter 3.

2) 1990 population distribution in urban and rural areas

The 1990 population census results conducted by NSO were reviewed in terms of population distribution to urban and rural areas. In application of revised classification of barangays in urban and rural category to reflect present conditions, the population by municipality was adjusted as shown in Table 8.3.2.



6	

	Total	1990 Cer	sus Data	Adjusted P	opulation
Municipality	Population	Urban	Rural	Urban	Rural
Milem	5,314	1,251	4,063	1,251	4,063
Banayoyo	5,864	778	5,086	778	5,086
Bantay	26,024	6,229	19,795	9,535	16,489
Burgos	9,601	1,211	8,390	1,411	8,190
Cabugao	27,997	7,635	20,362	7,635	20,362
Candon	43,473	6,922	36,551	6,922	36,551
Caoayan	15,637	6,507	9,130	6,507	9,130
Cervantes	12,476	2,319	10,157	2,319	10,157
Galimuyod	7,941	412	7,529	412	7,529
G. del Pilar	3,417	570	2,847	570	2,847
Lidlidda	3,515	1,127	2,388	1,127	2,388
Magsingal	22,271	4,251	18,020	4,949	17,322
Nagbukel	3,806	0	3,806	725	3,08
Narvacan	35,153	2,750	32,403	2,750	32,40
Quirino	6,623	1,234	5,389	1,234	5,389
Salcedo	9,397	1,287		1,287	8,110
San Emilio	5,649	1,970	3,679	1,970	3,679
San Esteban	6,327	718	5,609	718	5,609
San Ildelfonso	4,528	1,004	3,524	1,004	3,524
San Juan	20,328	3,329	16,999	3,329	16,999
San Vicente	9,989	1,106		1,106	8,88
Santa	12,570	1,713	10,857	1,713	10,85
Santa Catalina	11,388	8,190	3,198	1,224	10,16
Santa Cruz	28,764	4,129		4,129	24,63
Santa Lucia	20,504	2,163	18,341	2,163	18,34
Santa Maria	23,821	3,464		3,464	20,35
Santiago	14,427	2,238	12,189	2,238	12,18
Santo Domingo	20,720	2,702		2,702	18,01
Sigay	1,964	(1,964	0	1,96
Sinait	21,779	2,795	18,984	2,795	18,98
Sugpon	2,844	889		889	1,95
Suyo	7,950	1,510	1	1,510	6,44
Tagudin	29,295	4,657		4,657	24,63
Vigan (Capital)	38,574	38,574		38,574	<u> </u>
Provincial Total	519,930	125,63	1		1

(2) Review of the NSO regional population projection mainly on growth rates and the demographic conditions presented in the 1992 Philippine Yearbook

NSO projected population at regional level for the year 1995 and target years based on the 1990 population census considering some factors. In the study, annual growth rates on the projected population, by the NSO with ten years interval were calculated in application of a simple compounded formula as described below:

$$Pn = Po \times (1 + t)^n$$

where, Pn: Population in n-th year

Po: Population in the base year

r: Annual population growth rate

n: Growth period in year

Through the review of future regional population, it was learned that NSO projection coincides with the gradually declining annual growth rates; 1.39% from 1990 to 2000 and 1.10% from 2000 to 2010, while the last census decade from 1980 to 1990 recorded 1.96% (refer to Table 8.3.3). Thus, approximately 0.3% to 0.6% of the growth rate was discounted to every decade.

Review of "1992 Philippine Yearbook" delineated the following demographic characteristics of the region and province:

- The inter-regional migration pattern will continue as a major population development factor, however the migration rate will gradually decline through the future.
- The international migration, on the other hand, is insignificant to the population development.
- Fertility and mortality, another key factors of population growth, will moderately decline through the future, and the national family planning target set forth the family size to arrive at 4 persons/household by the year 2010.
- Population of the region and province belongs to low growth group in the country.

When the regional and provincial demographic characteristics are taken into account, the future provincial population is considered to remain under similar conditions as experienced in the last census decade, unless specific development takes place in the province.

(3) Estimation of present population (1995)

The present population in 1995 was estimated applying 1980-1990 average annual growth rate of respective municipalities (broken down to urban and rural areas) assuming

that the trend of past population development prevailed up to the present. Household size in 1995 is also assumed to be the same as that in 1990.

(4) Projection of provincial population by target year

Provincial population was projected by target year as shown in Table 8.3.3 in application of declining percentages of growth rates referring to the discounted growth rate of regional population projection as follows:

- Population in 2000 was projected from the base year 1995 applying the annual growth rate of 1.13% (29.1% discount to the growth rate of the province observed during the last census decade, 1980 to 1990).
- Population in 2010 with the base year of 2000 was projected applying the annual growth rate of 1.00% (although the rate of 0.89% was derived in application of 20.9% discount to the growth rate of the province adopted to 1996 to 2000, the rate of 1.00% was employed as the minimum growth rate for planning purpose).
- Present profile of population distribution both in urban and rural areas is assumed to prevail through the future.
- Household size in the year 2000 is assumed to be the same as the 1990 population census results, while that in the year 2010 was assumed to be 4 persons/household for the whole province in accordance with the target of the national family planning.

Table 8.3.3 Growth Rates and Population Projection for Target Years:

Region and Province Population and Provincial Share in the Growth Rate (%) Region 1980 -1991 -1996 -2000 -1990 2000 2010 1995 2000 2010 1990 4,189,000 4.672,000 3,550,606 Region I 1.96 1.39 1.10 (29.1)(20.9)519,930 596,096 658,461 1.60 1.13 1.00 llocos 14.1% 14.2% 14.6% Sur

Note: () shows percentage of growth rate decline from the previous period.

1

Table 8.3.4 shows provincial population by urban and rural area for the target years and the year 1995. Table 8.3.5 presents projected number of households for the target years.

Table 8.3.4 Provincial Population for Target Years

Area '	Population/ Composition	1990	1995	2000	2010
Total	Population	519,930	563,529	596,096	658,46
Urban	Population	123,597	131,439	139,035	153,58
Area	Composition (%)	24	23	23	2
Rural	Population	396,333	432,090	457,061	504,87
Area	Composition (%)	76	77	77	7

Table 8.3.5 Projected Number of Households by Urban and Rural Area by Municipality by Target Year

-	Ĥ	Household Size	17.6					Z	umber of	Number of Households					
Municipality		1990			1990			1995			2000			2010	
	Urhan	Rura	Total	Urban	Rural	Total	Urban	Rura	Total	Urban	Rural	Total	Urban	Rural	Total
Alilem	5.3	5.6	5.5	235	729	964	265	773	850	282	814	1.096	412	1.258	1,670
Banavovo	5.0	5.6	5.5	155	914	1.069	163	166	1.154	173	1,041	1,214	239	1.610	1.849
Bantay	5.2	5.4	5.3	1.819	3,051	4.870	1.927	3,340	5.267	2.054	3,533	5.587	2.950	5.269	8.219
Burgos	5.1	5.2	5.2	622	1,563	1.842	295	1.678	1.973	310	1,789	2,099	436	2.569	3.005
Cabugao	5.0	5.3	5.2	1.516	3,829	5,345	1.568	4,152	5,720	1,672	4.409	6.081	2,309	6.453	8.762
Candon	5.2	5.3	5.3	1.339	6.833	8.172	1,398	7,484	8.882	1.471	7.992	9.463	2,112	11.697	13.809
Caoayan	5.0	5.1	5.1	1.289	1.783	3.072	1,344	1.895	3,239	1.436	2.012	3,448	1.983	2.834	4.817
Cervantes	5.7	5.4	5.5	404	1,878	2.282	454	2.145	2.599	787	2.273	2,757	762	3.389	4.151
Galimuyod	5.3	5.4	5.4	78	1,387	1.465	18	1.528	1.609	98	1,625	1.711	126	2,424	2,550
G. del Pilar	5.1	5.5	5.4	112	515	129	119	541	099	126	575	701	177	874	1,051
Lidlidda	5.1	5.3	5.2	222	452	674	245	519	764	259	547	908	364	800	1,164
Magsingal	4.9	5.3	5.2	1,014	3,277	4.291	1.082	3.539	4.621	1.139	3,737	4,876	1.542	5,469	7.011
Nagbukel	5.1	5.2	5.1	142	298	740	143	624	191	152	654	908	214	056	1.154
Narvacan	5.2	5.1	5.1	529	6,333	6.862	\$42	6.801	7,343	573	7,222	7.795	823	10.172	10.995
Outrino	5.1	5.3	5.3	240	1,011	1,251	597	1.132	1.401	286	1.204	1.490	404	1.763	2.167
Salcedo	6.4	5.1	5.0	192	1.601	1.862	273	1,707	1.980	290	1.795	2.085	393	2.528	2.921
San Emitio	5.5	5.4	5.4	356	(282)	1.043	416	992	1.182	443	804	1.247	673	1,199	1.872
San Esteban	5.1	6.5	5.0	141	1.136	1.277	148	1.221	1,369	156	1,302	1,458	220	1.763	1.983
San Ildelfonso	5.2	5.4	5.3	194	959	820	198	753	156	308	793	1.001	299	1.182	1.481
San Juan	8.5	5.1	5.1	269	3.309	4.001	707	3.612	4.319	749	3,851	4,600	666	5.423	6,416
San Vicente	5.4	5.0	5.1	203	1.763	1.966	515	1.913	2.132	234	2.040	2.274	349	2,817	3.166
Santa	8.4	5.2	5.2	359	2.072	2,431	363	2,194	2,557	381	2.339	2.720	506	3,358	3.864
Santa Catalina	5.3	5.5	5.4	229	1.864	2,093	233	2.031	2,264	248	2,129	2.377	363	3 233	3.596
Santa Cruz	5.1	5.4	5.4	803	4.541	5.344	898	5,101	5.969	925	5.425	6.350	1.303	8,091	9.394
Santa Lucia	5.2	5.5	5.5	413	3.338	3,751	431	3,651	4.082	459	3.855	4.314	629	5.856	6.515
Santa Maria	5.0	5.2	5.1	969	3,948	4,644	732	4,175	4,907	771	4.382	5.153	1.065	6,293	7.358
Santiago	5.4	5.5	5.4	415	2,235	2,650	442	2,485	2,927	467	2.605	3.072	697	3.956	4,653
Santo Domingo	5.1	5.3	5.2	\$29	3,429	3,958	577	3.705	4.282	612	3.382	4.494	862	5.682	6.544
Sigay	0	9	9	0	340	340	0	361	361	0	381	381	0	610	610
Sinait	- 5	. 5	\$	\$43	3,954	4,497	195	4,250	4.811	909	4.496	5.096	845	2,960	6.805
Sugpon	\$. 9	2	175	349	524	192	323	515		342	544	285	529	814
Suyo	9	. 5	. 5	192	1,219	1.480	309	1.335	1.644		1.406	1.733	523	2.059	2.582
Tagudin	9	9	9	853	4,415	5.268	688	5.009	5.898		5,280	6.213		8,165	9.583
Vigan (Capital)	5	-0	5	7.339	0	7,239	7.768	0	7.768	8.263	0	8.263	12,095		12.095
Provincial Total	5	5	5	23.735	75.009	98.744	25.221	81.734	106.955	26,771]	86.5.34	113,305		126,225	164.626
								- Warney Company of the Company of t							

8.3.2 School Enrollment Projection

Table 8.3.6 Projected School Enrollment by Municipality by Target Year

			1995					2000					2010		
Municipality	School Age	Total 1	Total Enrollment	Publ	Public School Enrollment	School Age	Total	Total Enrollment	L	Public School Enrollment	School Age Population	Total	Fotal Enrollment	Public Set	Public School Enrollment
	Population	Number	Participation Rate	Number	Participation Rate	Population	Number	Participation Rate	Number	er Participation Rate		Number	Participation Rate	Number	Participation Rafe
Alilom	1,453	333	L	1,333		1.537	1,460			1,460	1,626	1.593	98		×6
Banavovo	1,619	1,340				1,713	-			68 5251	1.812	1,721	95	1,721	50
Bantav	7,163	6,075				7.577	4.546	09	4,167	55 55	×,015	6,572	82		7.1
Buryos	2.691	2,103				748,5	2,363		2,192		3,012	2,651		2.500	83
Cabueao	7,722	5,845				8,168		1X	5,2	5,228 64	8,640	7,430	86	١	7.1
Candon	12,395	-		9.147		13,111		96	10,620		13,869	13,869	100		06
Cacavan	:8:	2,377	09			4,190		63	2,640		4,432	2,925	99	1	99
Cervantes	4.077	2.719				4,313				3,019 70	4,562	3,969	87	3,422	75
Galimuvod	2,127	1.531		1,451		2,250	1,778	64		1,688	2,3%0	2,071	X7		8,3
G del Pilar	X65	670				\$16	741	81		622 68	896	823	88	707	73
Lidlidda	1.005	769			-	1,063	797	7.5		797	1.124				81
Magsingal	6.429	3	7.7			108'9	14415	80	4,761		7,194	6.187		١	
Nachukel	1,016		_	1,151		1,075	1,150	-	ŀ	1,150 107	1,137			-	
Narvacan	9,441	1	66			2×6'6	6,9X7	1001		9,787	10.564	10,564			
Ourino	878.1	1	96			1,987	1,947			1,550	2,102		\$	ļ	
Salcedo	1.591		96			2,741	2,686			2,604 95	2.899	2.870	66	2,783	
San Emilio	1,605		78	١.	71	1,698	S. 1,443.3	\$8		1,375	1,796	1,670		ı	
San Esteban	1,674	1.447	9X			1771	679'1	26		1.435] 81	1,873	١			6×
San Helfonso	302,1		88		58	1,373	268	65		892 65	1,452	1.350			
San Juan	5,592	261.3	80			516'5	5,915	100		5.797 98	6,257	1 6,257		ı	
San Vicente	2,720						E1X,1			1,640	3,043	1,982		ļ	
Santa	3.202	2.578		2.339	23	3,387	2,879			2,608	3.583	3,225	96		28
Santa Catalina	2.9%5	2,262	92		69	3,157	2,589	82		2,368 75				١	
Nanta Cruz	615.8	6.830	08	¥.		110'6	8,020	89			253,6	١	00		XX
Santo Lucio	8,75K	5.612	1.6	172,2	7.4	160'9	160'9	1001		5.177 85	6,443		:	1	
Santa Maria	6.305	5.728	06		88	6,765	6,427		1			7.013			
Santiago	111.4	3,462		5,906		611.7	STO'T 1	ξφ		3,479 80	4.600	3 4.462	45	4,324	
Santo Domingo	5.622	4,452	5.0	٠	134	5.947	5.055	88		4,698	Ŷ	1 5.725		5,410	
Sigav	516	C17	0x			546	464	1 8.5		464 85	S78				
Sinait	5.877	5,520	76	\$		6.217	6,217	1001		6,217 100	6.576	6,576		\$	
Nagron	742	9	98		98	586	675	86		675 86	830	747		Ì	
Suvo	7.256	-	88	TX6.1		71	Ш		1	2,338 98	2,524	2,534			
Tagudin	8.609	8,980	101	662'9	04 10	201.6	9,289	:	1		i	١		1	
Vigan (Capital)	10.094	18,567	154	10,152		10,677	11.318	901 108			11.294	1		- 1	95
Provincial Total	144,008	015 621	106	107	7.5	152,334	1.16,46X		125.334	334 82	161.136	5 152,011	94	143,110	××

8.3.3 Projection of the Number of Public Utilities

 Table 8.3.7 Projected Number of Public Utilities by Municipality by Target Year

•		1995	2000		2010	
Municipality	Туре	No. of Public Utilities	Proposed Construction	Total	Proposed Construction	Total
Alilem	Public Markets	0		0	ı	1
	Bus/Jeep Term.	0		0	1	ı
	Total	0	0	0	2	2
Banayoyo	Public Markets	0		0		0
······································	Bus/Jeep Term.	0		0	1	i i
	Total	0	0	0	ı	1
Bantay	Public Markets	0		0		0
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Bus/Jeep Term.	3		3		3
	Total	3	0	3	0	3
Burgos	Public Markets	0		0		0
Dagos	Bus/Jeep Term.	0		0		0
	Total	0	0	0	0	0
Cabugao	Public Markets	 <u>`</u> 		T		1
Cavugay	Bus/Jeep Term.	0		0	2	2
•	Total	i	0	 	2	3
Candon	Public Markets	1 1		i		t
Candon	Bus/Jeep Term.	 	· · · · · · · · · · · · · · · · · · ·	<u> </u>	2	3
	Total	2	0	2	2	4
Coores	Public Markets	0	 	0		0
Caoayan	Bus/Jeep Term.	0	<u> </u>	0	<u> </u>	
:	Total	0	0	0	1	
	Public Markets	1	ļ	1 · i		
Cervantes		'		1-1-	<u> </u>	
	Bus/Jeep Term.		1 1	2	0	2
	Total	0	 	0		0
Galimuyed	Public Markets	 	 	 	 	0
	Bus/Jeep Term.	0	ļ	0	0	0
	Total	0	0	0		1
G. del Pilar	Public Markets		·	0	<u> </u>	
	Bus/Jeep Term.	0		0	<u> </u>	1
<u> </u>	Total	0	0	0	2	2
Lidlidda	Public Markets	0	ļ -	0:	1	
	Bus/Jeep Term.	0	ļ	0	1 1	!
	Total	0	0	0	2	2
Magsingal	Public Markets	<u> </u>	<u> </u>		ļ. <u></u> .	1
	Bus/Jeep Term.	0	_	0	ļ	0
	Total	<u> </u>	0	1	0	1
Nagbukel	Public Markets	0		.0 .	ļ <u>.</u>	0
	Bus/Jeep Term.	0	ļ <u>.</u>	0	1	1 !
	Total	0	0	0	1	1
Narvacan	Public Markets	11		1 1	ļ	1 - 1 -
	Bus/Jeep Term.	1		1	ļ <u> </u>	2
	Total	2	0	2	<u> </u>	3
Quirino	Public Markets	ŀ		1		<u> </u>
	Bus/Jeep Term.	0		0	1	<u> </u>
	Total	11	0	1	1	2
Sálcedo	Public Markets	1		1		1_1_
1 .	Bus/Jeep Term.	0		0	1	1
	Total	ı	0		1	2
San Emilio	Public Markets	0		0	I	0
	Bus/Jeep Term.	0		0	i	1
	Total	0	.0	0	i	1





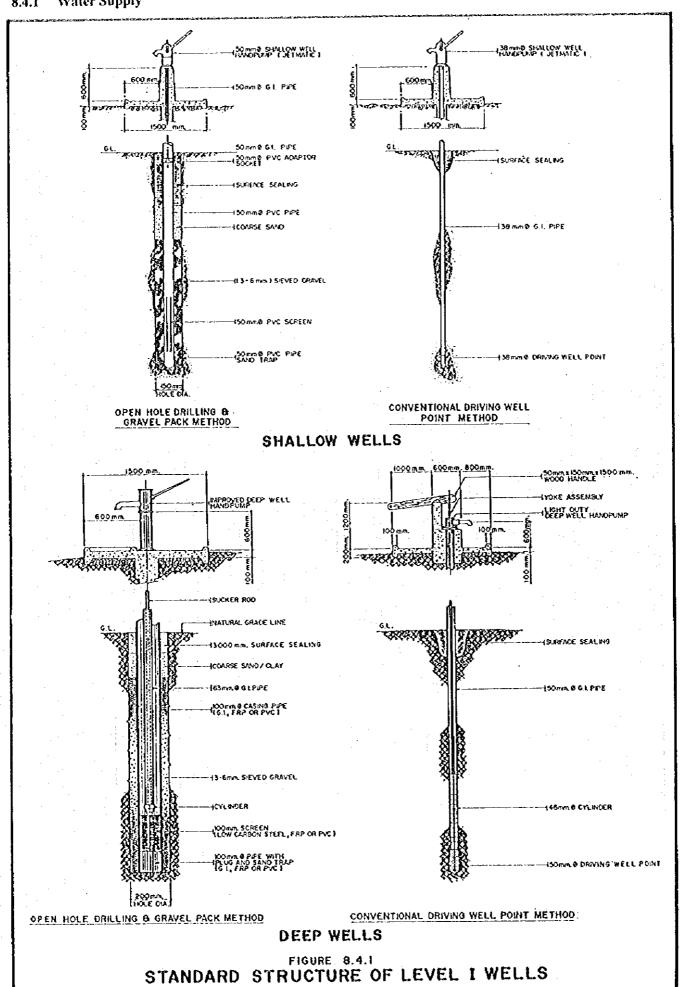


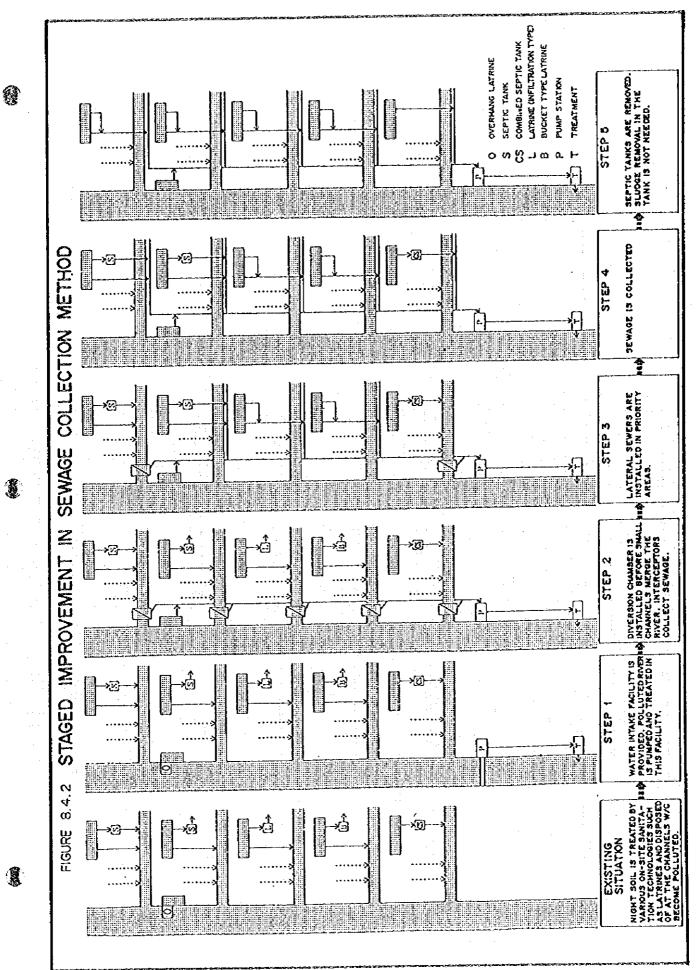
Table 8.3.7 Projected Number of Public Utilities by Municipality by Target Year (Cont'd.)

		1995	2000		2010	
Municipality	Туре	No. of Public Utilities	Proposed Construction	Total	Proposed Construction	Total
San Esteban	Public Markets	0		0	l	1
	Bus/Jeep Term.	0		0		0
	Total	0	0	0	l	1
San Ildelfonso	Public Markets	1		1		ļ
•	Bus/Jeep Term.	0		0		0
	Total	1	0	1	0	1
San Juan	Public Markets	1		1		ľ
	Bus/Jeep Term.	0		0		0
	Total	1	0	1	0	1
San Vicente	Public Markets	1		1		ı
	Bus/Jeep Term.	0		0		0
	Total	!	0	ı	0	1
Santa	Public Markets	1		1		1
	Bus/Jeep Term.	0		0		0
	Total	1	0	ı	0	l
Santa Catalina	Public Markets	- 0		0		0
**	Bus/Jeep Term.	0		0		0
The second second	Total	0	0	0	0	0
Santa Cruz	Public Markets	1		1		1
	Bus/Jeep Term.	0		0	1	1
* * * * * * * * * * * * * * * * * * *	Total	1	0	ı	1	- 2
Santa Lucia	Public Markets	. 1		1		i
. *	Bus/Jeep Term.	0		0		0
	Total	1	0	ı	0	1
Santa Maria	Public Markets	. 1		1		1
	Bus/Jeep Term.	0		. 0	1	1
	Total	1	0	1	1	2
Santiago	Public Markets	1		1		1
	Bus/Jeep Term.	0		0		0
	Total]	0	1 :	0	j
Santo Domingo	Public Markets	1		1		ī
	Bus/Jeep Term.	0		0	ı	- 1
	Total	1	0	. 1	i	2
Sigay	Public Markets	0		0	ı	1
	Bus/Jeep Term.	0		0		0
	Total	0	0	0	j	ī
Sinait	Public Markets	1		1	·	1
	Bus/Jeep Term.	0	1	ı	ı	2
	Total	1	i	2	1	3
Sugpon	Public Markets	0	1 .1	0	I	1
•• • • • • • • • • • • • • • • • • • •	Bus/Jeep Term.	0		0	1	` 1
	Total	0	0	0	2	2
Suyo	Public Markets	0		0	ì	1
•	Bus/Jeep Term.	0	<u> </u>	0	1.	l
	Total	0	0	0	2	2
Tagudia	Public Markets			1		I.
	Bus/Jeep Term.	0		0	2	2
	Total	i i	0	l	2	3
Vigan (Capital)	Public Markets	1	i	2	<u> </u>	2
- Paul & Maron	Bus/Jeep Term.	6		6		6
	Total	1 7		8	0	8
	Public Markets	19	1	20	7	27
Provincial Total	Bus/Jeep Term.	11	2	13	22	35
I I WILL IN I I I I I I I I I I I I I I I I I	Total	30	3	33	29 .	62

I

Water Supply 8.4.1





8.5 Service Coverage by Target Year

8.5.1 Water Supply

(1) Population to be served by Level II system in Phase I

Eight (8) untapped spring sources were confirmed to be suitable for Level II systems in rural water supply by the time of PW4SP preparation as shown in Table 8.5.1. Conditions and assumptions applied for this estimate are as follows:

Source capacity:

The average source capacity of untapped spring was assumed to meet the need of 100 households based on the review of existing Level II systems with spring sources.

Number of system:

Eight (8) untapped springs were considered to serve eight (8) Level II systems in eight (8) rural barangays of six (6) municipalities.

(2) Population to be served by target year

Phase I

For urban area, the additional service coverage was estimated to be served by Level III service. For rural area, the population to be served by Level II systems with untapped springs was firstly calculated and the rest of additional service coverage was estimated to be served by Level I facilities.

Phase II

For urban area, the population served by Level I and II facilities in base year was considered to be absorbed by Level III service aside from the additional service coverage to be estimated by the sector target. For rural area, all existing facilities in Phase I was assumed to be utilized through the future.

The population to be served by target year is exhibited in Table 8.5.2 and Table 8.5.3.



Table 8.5.1 Population to be Served by Level II System in Phase I

Municipality	Number of Untapped Spring	Number of Barangay to be Served	Number of Households to be Served	Population to be Served
Alilem	0	0	0	0
Вапауоуо	0	0	0	0
Bantay	0	0	0	0
Burgos	ı	l	100	520
Cabugao	0	0	0	0
Candon	0	0	0	0
Caoayan	0	0	0	0
Cervantes	0	0	0	0
Galimuyod	0	0	0	0
G. del Pilar	1	1	100	550
Lidlidda	0	0	0	0
Magsingal	1	·	100	530
Nagbukel	1	1	100	520
Narvacan	0	0	0	0
Quirino	3	3	300	1,590
Salcedo	0	0	0	0
San Emilio	0	0	0	0
San Esteban	0	0	0	0
San Ildelfonso	0	0	0	0
San Juan	0	0	0	0
San Vicente	0	0	0	0
Santa	1	l	100	520
Santa Catalina	0	0	0	0
Sonta Cruz	0	О	0	0
Santa Lucia .	0	0	0	0
Santa Maria	0	0	0	0
Santiago	0	0	<u> </u>	0
Santo Domingo	0	0	0	0
Sigay	0	0	0	0
Sinait	0	0	0	0
Sugpon	0	0	0	0
Suyo	0	0	0	0
Tagudin	0	0	0	0
Vigan (Capital)	0	0	0	00
Provincial Tota	8	8	800	4,230

Table 8.5.2 Population to be Served in Phase I (Water Supply)

								-	Phase I	Phase I Coverage (2000)	2000)			
	Į	Popul	Population Served	I in the Base Year	Year	Total		Service (Сочетаде			onal Popula	Additional Population to be Served	erved
Municipantes	- vpe	Level III	Level II	Level I	Total	Population	Total	Level III	Level II	Level I	Level III	Level II	Level I	Total
Alilem	Urban	0	0	506	905	1.492	1.268	363	0	905	363	0	0	363
	Rural	0	0	1.758	1.758	4,556	3.873	Ó	0	3.873	0	٥	2.115	2.115
	Total	0	0	2.663	2.663	6.048	5.141	363	0	4.778	363	0	2.115	2,478
Banayoyo	Urban	0	0	989	685	865	735	50	0	685	80	٥	0	SO
•	Rural	0	0	4.629	4.629	5.829	4.955	0	o	4,955	0	0	326	326
	Total	0	0	5.314	5.314	6.694	5.690	50	0	5,640	20	0	326	376
Bantay	Urban	1.150		6.020	7.170	10.682	9.080	3,060	0	6,020	1.910	0	0	1.910
	Rural	3,750		194'6	13.211	6.0.61	16.217	3.750	0	12,467	0	0	3,006	3.006
	Total	4.900	0	15.481	20.381	197.62	25.297	6.310	٥	18,487	1.910	0	3.006	4.916
Burgos	Urban	0	0	668	668	1,580	1.343	444	0	899	444	0	0	444
) 	Rural	0	975	4.763	5.738	9.302	7.907	0	1,495	6.412	0	520	1.649	2,169
	Total	0	975	299'5	6.637	10.882	9.250	144	1.495	7.311	444	520	1,649	2,613
Cabugao	Urban	850		6.336	7,186	8.361	7,186	850	0	6.336	0	0	0	٥
,	Rural	1.710		17,454	19,164	23.367	19.862	1.710	0	18.152	0	0	869	869
	Total	2.560		23,790	26,350	31.728	27.048	2.560	0	24,488	0	0	869	869
Candon	Urban				4.560	7.647	6.500	1.940	0	4.560	1.940	0	0	1.940
	Rural	0	550	24.796	25.346	42,356	36.003	0	250	35,453	0	0	10.657	10.657
•	Total	0	950	29.356	29.906	50,003	42,503	1.940	550	40.013	1.940	0	10.657	12.597
Caouyan	Urban	630	0	4.279	4,909	7.179	6,102	1.823	0	4.279	1.193	0	0	1,193
	Rural	1.700	0	4.167	5.867	10.261	8.722	1.700	0	7.022	0	0	2.855	2,855
	Total	2,330	0	8.446	10,776	17.440	14.824	3.523	0	11,301	1.193	0	2.855	4,048
Cervantes	Urban	0	0	1.863	1.863	2.759	2,345	482	0	1.863	482	0	0	482
	Rural	0	0	9.063	9,063	12.273	10,432	0	0	10.432	0 [1	0	1.369	1.369
	Total	0	0	10.926	10.926	15.032	12,777	482	0	12,295	487	0	1.369	1.851
Galimuvod	Urban	0	0	375	375	455	387	12	0	375	12	0 .	0	12
	Rural	0	0	7,411	7.411	8.777	7,460	0	0	7,460	0	0	67	49
	Total	0	0	7.786	7.786	9.232	7.847	[2]	0	7.835	12	0	46	19

Table 8.5.2 Population to be Served in Phase I (Water Supply) (Cont'd.)

									Phase I (Phase I Coverage (2000)	(000)			
	į	Popula	Population Served in the Base Year	in the Base	Year	Total		Service Coverage	overage		Additio	Additional Population to be Served	tion to be	erved
Nunicipalnes	36. 67.	Level III	Level II	Level I	Total	Population	Total	Level III	Level II	Level I	Level III	Level II	Level I	Total
G. del Pilar	Crban	009	0	o	909	642	909	909	0	0	0	0	0	٥
	Rural	800	550	1.407	2.757	3,165	2.757	800	550	1,407	0	0	O	٥
	Total	1.400	550	1.407	3,357	3.807	3,357	1,400	550	1.407	0	0	0	0
Lidlidda	Urban	0	٥	1.129	1,129	1,319	1,129	. 0	0	1.129	0	ō	0	٥
	Rural	0	0	2.454	2.454	2.897	2.462	0	0	2,462	0	0	8	∞
	Total	0	0	3.583	3,583	4.216	3.591	0	0	3,591	0	0	8	36
Magsingal	Urban	0	0	4.208	4,208	5.583	4.746	538	0	4.208	538	0	0	538
) }	Rural	0	0	14,244	14.244	19.805	16.834	0	530	16.304	0	530	2.060	2.590
:	Total	0	0	18,452	18.452	25.388	21.580	238	530	20.512	538	530	2.060	3.128
Nagbuke	Urban	ō	٥	469	469	774	658	189	0	469	189	0	O	189
ì	Rural	0	50	2,030	2,080	3.402	2.892	0	570	2.322	0	520	292	812
	Total	0	0.5	2,499	2.549	4.176	3.550	189	570	2,791	681	520	292	1.001
Narvacan	Urban	874	0	1,040	1,914	2.979	2.532	1.492	0	1.040	618	0	0	618
	Rural	0	450	18.344	18,794	36.833	31.308	0	450	30.858	0	ठ	12,514	12.514
	Total	874	450	19.384	20,708	39.812	33,840	1.492	450	31.898	618	0	12.514	13.132
Quirino	Urban	0	1,020	0	1,020	1,461	1,242	222	1.020	0	222	0	0	222
<i>,</i>	Rural	0	2,226	0	2.226	6.383	5.426	0	3.816	1,610	0	1.590	1.610	3.200
	Total	0	3.246	0	3.246	7.844	6.668	222	4.836	1,610	222	1.590	1.610	3,422
Salcedo	Urban	0	0	1.036	1.036	1,422	1,209	173	0	1.036	173	0	0	173
	Rural	0	0	6.644	6,644	9.155	7,782	0	0	7.782	0	0	1,138	1.138
	Total	0	0	7.680	7.680	10.577	8.991	:73	0	8.818	173	0	1.138	1.311
San Emilio	Urban	0	0	2,141	2,141	2,436	2.141	0	0	2,141	0	0	0	Ó
	Rural	0	0	3,563	3.563	4,341	3.690	0	0	3.690	0	O	127	127
	Total	0	0	5.704	5.704	6,777	5.831	0	0	5.831	0	0	127	127
San Esteban	Urban	0	255	318	573	795	676	103	255	318	103	0	0	103
-,	Rural	0	671	3.770	3,919	6.382	5.425	٥	1.19	5.276	0	0	1.506	1.506
	Total	0	101	4.088	4,492	7.1.77	6.101	103	404	5.594	103	0	1.506	1.609
San Ildeltonso	Urban	0		802	802	1.083	921	119	0	802	119	0		119
	Rural	0		3.110	3.110	4.280	3.638			3.638			528	528
	Tota!	0	0	3.912	3.912	5.363	4.559	119	0	4.40	119	0	528	647

Table 8.5.2 Population to be Served in Phase I (Water Supply) (Cont'd.)

									Phase I (Phase I Coverage (2000)	2000)			
Municipalities	J.	ropuii	ropulation served	in the Base Year	Year	Total		Service C	Coverage		Additio	onal Popula	Additional Population to be Served	erved
	<u>.</u>	Level III	Level II	Level I	Total	Population	Total	Level III	Level II	Level I	Level III	Level II	Level I	Total
San Juan	Urban	0	0	2.732	2,732	3.596	3.057	325	0	2.732	325	0	0	325
	Rural	0	325	14,462	14.787	19.638	16.692	0	325	16.367	0	0	1.905	1.905
	Total	0	325	17.194	17.519	23.234	19.749	325	325	19.099	325	0	1.905	2.230
San Vicente	Urban	0	0	1.063	1.063	1.262	1.073	01	0	1,063	01	0	0	10
-	Rural	0	0	6.590	6.590	10,200	8.670	0	0	8,670	0	0	2.080	2,080
	Total	0	0	7.653	7.653	11,462	9,743	10	0	9,733	10	0	2.080	2,090
Santa	Urban	755	0	909	1,361	1.831	1,556	950	0	909	195	10	0	195
·	Rural	95	494	6.942	7.531	12,161	10.337	95	1.014	9.228	0	520	2,286	2.806
	Total	850	464	7.548	8.892	13.992	11,893	1.045	1.014	9.834	195	520	2.286	3.001
Santa Catalina	Urban	0	0	941	146	1.314	1.117	176	0	941	176	0	0	176
·	Rural	0	0	8,401	8.401	11,707	9.951	0	0	9.951	0	0	1,550	1.550
	Total	0	0	9.342	9.342	13,021	11,068	941	0	10.892	176	0	1.550	1,726
Santa Cruz	Urban	0	· 0	3.075	3.075	4.719	4,011	936	0	3.075	936	0	0	936
	Rural	0	1.075	18.448	19.523	29.297	24.902	0	1.075	23.827	0	0	5.379	5.379
:	Total	0	1.075	21.523	22.598	34.016	28.913	986	1.075	26,902	936	0	5,379	6.315
Santa Lucia	Urban	920	0	968	1.816	2.386	2.028	1.132	0	896	212	0	0	212
	Rural	645	125	12.923	13.693	21,264	18.023	645	125	17,253	0	0	4,330	4.330
	Total	1,565	125	13.819	15.509	23.590	20.051	1,777	125	18,149	212	0	4,330	4.542
Santa Maria	Urban	0	0	1.947	1.947	3.855	3,277	1.330	0	1,947	1.330	0	0	1.330
	Rural	250	0	11.258	11.508	22.788	19.370	250	0	19,120	0	0	7.862	7.862
	Total	250	0	13,205	13,455	26.643	22.647	1.580	0	21.067	1.330	0	7.862	9,192
Santiago	Urban	335	75	1.361	1.77.1	2.523	2,145	607	75	1,361	374	0	0	374
	Rural	0	0	9,764	9.764	14.326	12.177	0	0	12.177	0	0	2,413	2.413
	Total	335	7.5	11,125	11.535	16.849	14.322	602	75	13.538	374	0	2,413	2.787
Santo Domingo	Urban	25	0	2.343	2,368	3,122	2.654	311	0	2.343	286	0	0	286
	Rural	01	475	15.779	16.264	20,574	17.488	01	475	17.003	0	0	1,224	1.224
	Total	35	475	18,122	18.632	23,696	20.142	321	475	19.346	286	0	1,224	1.510

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Table 8.5.2 Population to be Served in Phase I (Water Supply) (Cont'd.)

										Ç	(979)			
									ruane i	roane i Coverage (2000)	1	1		Ĭ.
;	Ę	Popula	Population Served	ed in the Base x ear	xear	Total		Service Coverage	overage		Addition	Additional Population to be Served	tion to be	Served
Municipalities	EyPe	Level III	Level II	Level I	Total	Population	Total	Level III	Level II	Level I	Level III	Level II	Level I	Total
Sigav	Urban	0	0	0	0	0	0	0	0	0	0	0	0	ी
	Rura	0	1.625	455	2.080	2,207	2.080	0	1.625	455	٥	C	O	ा
	Total	0	1.625	455	2.080	2.207	2.080	0	1.625	455	0	0	0	Ō
Sinair	Urban	995	0	1.896	2,891	3,058	2.891	995	0	1.896	0	0	0	ी
	Rural	O	0	16,014	16.014	21.580	18.343	0	0	18,343	0	0	2,329	2,329
	Total	\$66	0	17.910	18.905	24.638	21,234	566	0	20.239	0	0	2.329	2.329
Rumon	Urban	0	225	069	915	1.032	\$16	0	225	069	0	0	0	०
4	Rural	0	1.175	0	1.175	1.915	1,628	0	1.175	453	0	0	453	453
	1013	c	1 400	069	2.090	2,947	2,543	0	1.400	1,143	0	0	453	453
SS	Lichan	C	1.275	0	1.275	1.894	0191	335	1,275	0	335	0	O	335
2.	Dura!	C	4 700	294	4 994	7,454		0	4.700	1.636	0	0	1.342	1.342
	Total	-	4 075	204	6.269	9.348		335	5.975	1.636	335	0	1.342	1.677
To so to	1 (2)	2,660		1.674	4.334			ci	0	1.674	59	0	0	29
	Rural	2.555	67	18.679	21,909		25.132	2.555	675	21.902	0	0	3,223	3.223
	Total	5.215		20.353	26.243	34,700	29.495	5.244	675	23.576	29	0	3,223	3,252
Vivan (Capital)	Urban	6.300		24,425	30,725	43.796	37.227	12,802	0	24.425	6.502	0	0	6.502
	Rural	o		0	0	0	0	0	0	0	0	0	0	
·	Total	6.300		24,425	30.725	43.796	37.227	12.802	0	24,425	6.502	0	٥	6.502
	Ürban	16.094	2.850	1	99,658	139.035	118,724	35.160	2.850	80.714	19.066	0	0	19.066
Provincial Total	Rural	11.515		["	306.211	457.061	388.774	313,11	19.299	357,960	0	3.680	78.883	
	Total	27,609	-	359.791	405.869	596,096	507.498	46.675	22.149	438.674	19,066	3.680	78.883	101.629
							l				-			

Table 8.5.3 Population to be Served in Phase II (Water Supply)

									Phase II	Phase II Coverage (2010)	2010)			
Municipalities	Type	S.	Population Served	rved in 2000		Total		Service Coverage	overage			ional Popul	Additional Population to be Served	rved
		Level III	Level II	Level I	Total	Population	Total	Level III	Level II	Level I	Level III	Level II	Level I	Total
Alilem	Urban	363	0	905	1.268	1.648	1.556	1.566	0	0	1.203	0	0	1.203
	Rural	0.	0	3.873	3.873	5.033	4.781	0	0	4.781	0	0	806	806
	Total	363	0	4.778	5.141	6.681	6.347	1.566	0	4,781	1.203	0	806	2.111
Banavovo	Urban	50	0	685	735	955	404	406	0	0	857	0	0	857
	Rural	0	0	4.955	4,955	6,439	6,117	0	0	6.117	0	0	1.162	1.162
	Total	. 50	0	5.640	5.690	7.394	7,024	200	0	6.117	857	0	1.162	2.019
Bantay	Urban	3.060	0	6.020	9.080	11.800	11,210	11,210	0	0	8.150	0	0 .	8.150
	Rural	3,750	0	12,467	16.217	21.075	20.021	3,750	0	16.271	0	0	3.804	3.804
	Total	6.810	0	18.487	25.297	32.875	31,231	14.960	0	16.271	8,150	0	3.804	11.954
Burgos	Urban	444	0	668	1.343	1.745	1.658	1.658	0	0	1.214	0	0	1.214
	Rural	0	1.495	6.412	7.907	10.275	9.761	0	1.495	8.266	0	0	1.854	1.854
	Total	444	1.495	7.311	9.250	12,020	11.419	1.658	1.495	8,266	1.214	0	1.854	3.068
Cabugao	Urban	850	0	6.336	7.186	9,236	8.774	8,774	0	0	7.924	0	0	7.924
	Rural	1,710	0	18.152	19.862	25.811	24.520	1,710	0	22.810	0	0	4,658	4.658
	Total	2.560	0	24,488	27.048	35.047	33,294	10,484	0	22,810	7.924	0	4.658	12.582
Candon	Urban	1.940	0	4.560	6.500	8.447	8.025	8.025	0	0	6.085	0	0	6,085
	Rural	0	250	35,453	36.003	46.788	44,449	0	550	43,899	0	0	8.446	8.446
	Total	1,940	850	40,013	42,503	55.235	52.474	8.025	550	43,899	6.085	0	8,446	14.531
Caoayan	Urban	1.823	0	4.279	6.102	7.930	7.534	7.534	0	0	5.711	0	0	5,711
	Rural	1.700	0	7.022	8.722	11.335	10.768	1.700	0	9.068	0	0	2,046	2.046
	Total	3.523	0	11,301	14.824	19.265	18.302	9.234	0	9.068	5.711	0	2.046	7.757
Cervantes	Urban	482	0	1.863	2,345	3.048	2.896	2,896	0	0	2,414	0	0	2,414
	Rural	0	0	10.432	10.432	13.557	12.879	0	0	12.879	0	0	2,447	2,447
	Total	482	0	12.295	12,777	16,605	15.775	2.896	0	12.879	2.414	0	2,447	4.861
Galimuyod	Urban	12	0	375	387	503	478	478	0	0	466	0	0	99†
	Rural	0	0	7.460	7:460	9.695	9,210	0	0	9.210	0	0	1.750	1.750
	Total	12]	0	7.835	7.847	10.198	9.688	478	0	9.210	997	0		2.216



Table 8.5.3 Population to be Served in Phase II (Water Supply) (Cont'd.)

									Phase II	Phase II Coverage (2010)	2010)			
Membershie	e co	<u>a</u>	Population Served	ved in 2000		Total		Service Coverage	overage			ional Populs	Additional Population to be Served	erved
NATURE DANIES	<u>. </u>	Level III	Level II	Level I	Total	Population	Total	Level III	Level II	Level I	Level III	Level II	Level [Total
G. del Pilar	Urban	9	O	0	009	602	674	674	j0	0	74	0	0	7
	Rural	800	550	1.407	2,757	3,496	3,321	800	550	1.971	0	0	36.	Ř
	Total	1,400	550	1.407	3.357	4,205	3.995	1,474	550	1.971	74	0	564	638
Lidiidda	Urban	0		1.129	1,129	1.457	1.384	1,384	0	0	1.384	O	0	1.384
	Rural	0	0	2,462	2,462	3.200	3,040	0	0	3.040	0	0	578	578
	Total	0		3,591	3.591	4,657	4,424	1,384	0	3,040	1.384	0	878	1.962
Maesingal	Urban	538	0	4.208	4.746	6,167	5,859	5,859	0	0	5.321	0	0	5.321
9	Rural	0	530	16.304	16.834	21.877	20.783	0	530	20.253	0	0	3.949	3.949
	Total	238	530	20.512	21.580	28,044	26.642	5.859	530	20.253	5.321	0	3,949	9.270
Nagbukel	Urban	189	0	697	859	858	812	812	0	0	623	0	Õ	623
·	Rural	0	570	2.322	2.892	3.758	3.570	0	920	3.000	٥	io	879	678
	Total	189	570	2.791	3.550	4.613	4,382	812	570	3.000	623	0	829	1.301
Narvacan	Urban	1,492	C	1.040	2.532	3,291	3,126	3,126	,	0	1.634	0	0	1.634
	Rural	0	450	30.858	31.308	40,686	38.652	0	450	38,202	0	٥	7.344	7,34
	Total	1.492		31.898	33.840	43.977	41.778	3.126	450	38.202	1.634	٥	7,344	8.978
Ouirino	Urban	222	1.020	0	1.242	1,614	1.533	1.533	0	0	1,311	0	0	1.311
,	Rural	0		1.610	5.426	7.051	869'9	0	3.816	2,882	0	٥	1.272	1.272
	Total	222	4.836	1.610	899'9	8,665	8.231	1.533	3.816	2.882	1.311	0	1.272	2,583
Salcedo	Urban	173	0	1,036	1,209	1,571	1,492	1.492	0	0	1.319	٥	0	1.319
	Rural	0	0	7.782	7 782	10.113	9.607	0	0	9,607	0	0	1.825	1.825
	Total	173	0	8.818	8,991	11.684	11.099	1,492	0	9,607	1,319	0	1.825	3.14
San Emilio	Urban	0	0	2,141	2.141	2.691	2,556	2.556	0	0	2.556	0	0	2.556
	Rural	0	0	3.690	3,690	4,795	4.555	0	0	4,555	0	0	865	
	Total	0	0	5.831	5.831	7,486	7.111	2.556	0	4,555	2.556	0	865	3,421
San Esteban	Urban	103	255	318	929	878	834	834	0	0	731	0	0	731
	Rural	O	149	5.276	5.425	7.050	6.698	0	149	6.549	O	0	1.273	
	Total	103	404	165'5	101.9	7.928	7.532	834	149	6.549	731	0	1.273	2.004
San lideitonso	Urban	611	0	802	921	961.1	1.136	1,136	0	0	1.017	٥	0	
	Rural	0	0	3.638	3.638	4.728	4.492	0						
	Total	119	0	4,440	4,559	5,924	5.628	1,136	0	4,492	1.017	0	854	1.871

Table 8.5.3 Population to be Served in Phase II (Water Supply) (Cont'd.)

									Phase II	Phase II Coverage (2010)	2010)			
Vimicinalities	ر م	ď	Population Served	rved in 2000		Total		Service Coverage	overage			ional Popul	Additional Population to be Served	erved
	<u>}</u>	Level III	Level II	Level I	Total	Population	Total	Level III	Level II	Level I	Level III	Level II	Level I	Total
San Juan	Urban	325	0	2,732	3.057	3.972	3.773	3,773	0	0	3,448	0	0	3,448
	Rural	0	325	16.367	16.692	21,693	20.608	0	325	20.283	0	0	3,916	3.916
	Total	325	325	19,099	19.749	25.665	24.381	3.773	325	20.283	3,448	0	3.916	7.364
San Vicente	Urban	10	0	1,063	1.073	1.394	1.324	1,324	0	0	1.314	0	0	1.314
	Rural	0	0	8,670	8.670	11.267	10,704	0	0	10.704	0	0	2,034	2.034
	Total	101	0	9,733	9,743	12,661	12.028	1,324	0	10.704	1.314	0	2.034	3.348
Santa	Urban	950	0	909	1.556	2.023	1.922	1.922	0	0	972	0	0	972
	Rural	\$6	1.014	9.228	10.337	13,433	12.761	95	1.014	11,652	0	0	2,424	2,424
٠	Total	1.045	1,014	9.834	11.893	15.456	14.683	2.017	1.014	11.652	972	0	2,424	3.396
Santa Catalina	Urban	176	0	941	1.117	1,451	1.378	1.378	0	0	1,202	0	0	1.202
	Rural	ō	0	156'6	156.6	12.932	12,285	0	0	12.285	0	0	2.334	2.334
	Total	176	0	10.892	11.068	14,383	13,663	1,378	0	12,285	1,202	0	2,334	3,536
Santa Cruz	Urban	936	0	3.075	4,011	5.213	4,952	4.952	0	0	4,016	0	0	4,016
	Rural	0	1.075	23.827	24,902	32,362	30,744	0	1.075	29.669	0	0	5.842	5.842
	Total	936	1.075	26.902	28.913	37.575	35,696	4.952	1.075	29,669	4.016	0	5.842	9.858
Santa Lucia	Urban	1.132	0	968	2.028	2.636	2.504	2.504	0	0	1.372	0	0	1.372
	Rural	645	125	17.253	18.023	23,422	22.251	645	125	21,481	0	0	4,228	4.228
	Total	1.777	125	18.149	20.051	26.058	24.755	3.149	125	21.481	1.372	0	4,228	5.600
Santa Maria	Urban	1.330	0	1,947	3.277	4.258	4.045	4.045	0	0	2.715	0	0	2.715
	Rural	250	0	19.120	19.370	25.172	23.913	250	0	23.663	0	0	4,543	4,543
	Total	1.580	0	21.067	22.647	29.430	27.958	4,295	0	23,663	2.715	0	4,543	7.258
Santiago	Urban	602	7.5	1,361	2,145	2,787	2.648	2.648	0	0	1.939	0	0	1.939
	Rural	0	0	12:177	12.177	15,825	15.034	0	0	15.034	0	0	2.857	2.857
	Total	502	7.5	13,538	14.322	18,612	17,682	2.648	0	15.034	1.939	0	2.857	4.796
Santo Domingo	Urban	311	0	2.343	2.654	3,449	3.277	3.277	0	0	2,966	0	0	2.966
	Rural	01	475	17.003	17.488	22.726	21.590	01	475	21,105	0	0	4.102	4.102
	Total	321	475	19,346	20,142	26.175	24.867	3.287	475	21.105	2.966	0	4,102	7.068

Table 8.5.3 Population to be Served in Phase II (Water Supply) (Cont'd.)

									Phase II	Phase II Coverage (2010)				
:		P.	spulation Se	Population Served in 2000	<u>.</u>	1		Service Coverage	overage			onal Popul	Additional Population to be Served	red
Municipalities	Type	Level III	Level II	Level I	Total	Population P	Total	Level III	Level II	Level I	Level III	Level II	Level I	Total
						1	c	c	c	O	0	0	0	0
Sigay	Crban	0	0		S :	2			202	109	c	C	236	236
	Rural	0	1.625	455	2,080	2.438	2.316	Ö	1.025	160	> (200	326
	Total	Ó		455	2.080	2.438	2.316	0	1.625	691	0	7	730	0.7
	Takaa	>00		1.896	2.891	3.378	3.209	3.209	0	0	2.214			2.214
Sinaic	2010	0		18.343	18,343	23.838	22.646	10	0	22.646	0	0	4,303	4.303
	100	300		20.239	21.234			3.209	0	22.646	2.214	0	4,303	6.517
	Tehan	C	22	069		1.140	1.083	1,083	0	0	1.083	0	0	1.083
nodšne.	1		-		1.628	2,115	2.009	0	1 175	834	0	٥	381	381
	Total	0		-	2.543			1.083	1.175	834	1.083	0	381	4.
	10191	226			1610	2.092		1.987	0	0	1.652	٥	0	1.652
oána				1.63				0	4.700	3.122	0	O	1.486	1,486
	in in in in in in in in in in in in in i	325					_	1,987	4.700	3.122	1,652	٥	1.486	3,138
	1001	007 6						5.387	0	O'	2.698	0	٥	2.698
Lagudin	Orbani Paris	2 666	١	ç			[7]	2.555	675	27.797	0	0	5.895	5.895
	Total	5.244		İ			36.414	7.942	678	27.797	2.698	0	5.895	8.593
Victor (Capital)	Urban	12,802			37,227	48.378	45.959	45.959	0	0	33,157			33,157
,	Sura.	0	0		0	0	0	0	0	0	0			C
	Total	12.802		24,425	37,227	48.378	45.959	45,959	0	0	33,157		0	33.157
	10 th	25.160	286				_	145.902	0	0	110,742		0	110.742
	0,000	11 616		"	:]	11.515	19,299	448.818	0		0 90.858	- 1
Frovincial Luca	10.00	379 97		1	1		625.534	157,417	19.299	448.818	110,742		0 90.858	201.600
	10141		1	1		ļ	1							

Table 8.5.4 Additional Number of Households to be Served in Phase I (Household Toilets)

		No. 0	f Househo Base	No. of Households Served in the Base Year	in the	No. of			Pha	Phase I Coverage (2000)	age (200	(6		
Municipality	Area		Pour	VIP	70401	Households in 2000		Household Coverage	Coverage		Additio	Additional No. of Households to be Served	seholds to be	served
		r tass	Flush	Latrine	1		Flush	Pour Flush	VIP Latrine	Total	Flush	Pour Flush	VIP Latrine	Total
Alilem	Urban	7	145	65	211	282	53	199	13	265	97	\$4	0	38
	Rural	0	411	199	610	814	0	727	38	765	0	316	0	316
	Total	7	556	258	821	1.096	53	926	51	1.030	46	370	0	416
Banayoyo	Urban	0	. 163	0	163	173	10	145	8	163	10	0	8	18
	Rural	0	916	28	944	1.041	0	930	49	626	٥	14	21	35
	Total	0	1.079	28	1.107	1.214	10	1.075	57	1.142	10	14	29	53
Bantay	Urban	295	1.064	276	1.902	2.054	562	1.064	276	1.902	0	0	0	ō
	Rural	170	2.468	137	2.775	3.533	332	2,823	991	3,321	162	355	62	546
	Total	732	3,532	413	4.677	5.587	894	3.887	242	5,223	162	355	29	35
Burgos	Urban	4	136	146	286	310	58	218	15	291	54	82	0	136
	Rural	49	1.358	73	1,480	1.789	49	1.549	84	1.682	0	191	11	202
	Total	53	1.494	219	1.766	2.099	107	1,767	66	1.973	54	273	11	338
Cabugao	Urban	205	1.299	39	1.543	1.672	205	1.288	62	1.572	0	0	70	4
	Rural	11	3.815	244	4.070	4.409	323	3.614	207	4,144	312	0	ō	312
	Total	216	5,114	283	5.613	6.081	528	4,902	286	5.716	312	0	07	352
Candon	Crban	7.4	1.272	31	1.377	1,471	777	1.037	69	1.383	203	0	38	241
	Rural	147	6.983	250	7.380	7.992	147	6.989	376	7,512	0	9	126	132
	Total	122	8.255	281	8.757	9.463	424	8.026	445	8.895	203	9	164	373
Caoayan	Urban	172	883	189	1.244	1 436	270	1,013	67	1,350	. 98	130	0	228
	Rural	101	1.048	0	1,149	2.012	681	1,607	95	1.891	88	559	95	742
	Total	273	1.931	1881	2.393	3.448	459	2.620	162	3,241	186	689	95	970
Cervantes	Urban	180	202	99	451	484	180	202	99	451	0	0	0	0
	Rural	404	741	773	1.918	2.273	404	1,626	107	2.137	0	885	0	885
	Total	285	976	839	2,369	2.757	584	1.831	173	2.588	0	885	0	885
Calimayod	Urban	0	. 65	91	81	98	C1	7.5	4	81	2	10	0	11
	Rural	4	667 1	23	1.526	1.625	7	1,448	76	1.528	0	0	53	53
	Total	4	1.564	39	1.607	1.711	6	1.523	80	609.1	2	10]	53	65

Table 8.5.4 Additional Number of Households to be Served in Phase I (Household Toilets) (Cont'd.)

		No. of	No. of Households Ser Base Year	scholds Served Base Year	rved in the	No. 0f			Phas	Phase I Coverage (2000)	age (2000	(
Municipality	Area	1	Pour	ΔIA	1	Households in 2000		Household Coverage	Coverage		Addition	Additional No. of Households to be Served	seholds to be	served
		r itesu	Flush	Latrine	T COM		Flush	Pour Flush	VIP Latrine	Total	Flush	Pour Flush	VIP Latrine	Total
G. del Pilar	Urban	8	76	13	119	126	30	76	13	119	jo	o	0	٥
	Rural	72	330	\$6	487	575	54	460	LZ	541	52	70	0	122
	Total	32	466	108	909	101	48	536		099	52	70	0	122
Lidlidda	Urban	ō	224	11	235	259	0	231	12	243	0	7	1	00
	Rural	ठ	482	20	502	547	0	488	26	514	0	9	9	12
	Total	0	28,	31	737	908	0	719		757	0	13	7	৪
Magsingal	Urban	100	893	68	1,082	1.139	110	206	54	1,071	10	14	0	22
0	Rural	110	2,680	746	3,536	3,737	110	3.227	1	3,513	0	547	0	547
- M	Total	210	3.573	835	4,618	4.876	220	4,134	230	4,584	10	195	O	571
Nagbukel	Croan	4	131	0	135	152	53	101	1/	143	25	0	7	32
D	Rural	0	327	23	350	654	0	584	31	615	0	257	8	265
	Total	4	458	23	485	908	53			758	25	257	15	797
Navacan	Urban	8	440	ō	530	573	108	404		539	18	0	27	45
	Rural	380	5,524	o	5.884	7.222	360	6.090	339	6,789	0	995	339	905
	Total	450	2,8	ō	6,414	7.795	468	6.494	396	7.328	18	995	366	950
Ouirino	Urban	-	225	\$	592	286	43	213	13	569	42	0	0	4
	Rura	0	040	414	1.054	1,204	0	1.075	LS	1,132	0	435	0	435
	Total	-7	\$98	454	1,320	1,490	43	1.288	70	1,401	42	435	0	477
Salcedo	Urban	S	261	7	273	290	35	224	14	273	30	0	7	37
	Rural	191	-	<u>\$</u>	1.707	1,795	61	1,584	28	1.687	0	0	0	ठ
	Total	22	ľ	111	1.980	2.085	54	1.808		1.960	30	0	7	37
San Emilio	Urban	ō	296	29	325	443	0	56E		416	0	66	0	\$
	Rural	ō		0	307	804	0	718	38	756	0	411	38	449
	Total	O		83	632	1.247	0	1,113	65	1,172	0	510	38	\$48
San Esteban	Urban	9		0	138	156	20	120	14	147	01	0	7	17
	Rural	22		0	1.007	1,302	24	1,139	19	1.224	0	156	61	217
	Total	34	1,111	0	1.145	1,458	44	1.259	. 68	1,371	101	156	68	234
San Ildelfonso	Urban	24	151	0	175	208	24	162	10	196	0	11	10	21
	Rum	11	089	0	269		17		37	745		11		87
	Total	41	831	٥	872	1,001	41	853	47	941	o	22	47	69

Table 8.5.4 Additional Number of Households to be Served in Phase I (Household Toilets) (Cont'd.)

Municipality	- :	No. of	Househol Ease	No. of Households Served in the	in the	No. of	I .		Pha	Phase I Coverage (2000)	age (200	0)		
,	Area		Pour	AIIA	Ę	Households in 2000		Household Coverage	Coverage		Additio	nal No. o f Ho	Additional No. of Households to be Served	Served
	<u> </u>	esn.	Flush	Latrine	500		Flush	Pour Flush	VIP Latrine	Total	Flush	Pour Flush	VIP Latrine	Total
San Juan U	Urban	25	919	53	694	749	89	109	35	704	43	0	L	43
	Rurai	174	2,711	0	2,885	3.851	174	3.265	181	3.620	0	554	181	735
Ē	Total	199	3.327	53	3,579	4.600	242	3,866		4,324	43	552	181	778
San Vicente U	Urban	21	188	01	219	234	21	188	11	220	0	0		-
	Rural	8	1.200	2.	1,424	2,040	80	1,742	8	1.918	0	542	0	542
F	Total	101	1.388	154	1,643	2,274	101	1,930	107	2,138	O	542	-	543
Santa	Urban	28	279	48	355	381	72	268	18	358	44	0	0	4
	Rural	Š	1.948	0	1.953	2,339	18	2.071	110	2,199	13	123	110	246
<u> </u>	Total	33	2,227	48	2.308	2,720	06	2,339	128	2,557	ST	123	110	290
Santa Catalina U	Urban	8	204	0	224	248	33	188	12	233	13	0	12	25
į α̃	Rural	124	1.797	7	1.928	2,129	124	1,777	100	2,001	0	0	93	93
	Total	144	2,001	7	2,152	2,377	157	1,965	112	2.234	13	0	105	118
Santa Cruz U	Urban	1.1	724	77	812	925	174	653	43	870	163	0	0	163
-	Rural	43	4,420	322	4.785	5,425	43	4.802	255	5.100	0	382	0	382
LE	Total	¥	5,144	399	5,597	6,350	217	5,455	298	5.970	163	382	0	545
Santa Lucia	Urban	40	252	24	316	459	98	323	22	431	46	11.	0	117
	Rural	47	2:732	497	3.276	3.855	117	3.326	1	3,624	70	594	0	664
1	Total	87	2,984	521	3.592	4,314	203	3.649	203	4.055	116	599	٥	781
Santa Maria	Urban	36	653	25	714	771	145	\$44	36	725	109	0	11	120
<u>~</u>	Rural	32	3.782	53	3.867	4.382	48	3.865	206	4,119	16	83	153	252
T	Total	89	4.435	78	4.581	5,153	193	4.409	242	4,844	125	83	162	372
Santiago	Urban	5	419	12	436	467	88	329	22	439	83	0	10	93
- X	Rural	593	1.322	227	2,142	2,605	593	1,322	227	2,142	0	0	0 0	0
T	Total	865	1,741	239	2.578	3.072	681	1.651	249	2.581	83	0	01 10	93
Santo Domingo U	Urban	14	550	0	564	612	19	485	29	575	47	0	29	76
- K	Rural	58	3,291	0	3,349	3.882	58	3.409	182	3.649	0	118	182	300
T.	Total	72	3.841	0	3.913	4,494	119	3.894	211	4.224	47	118	211	376

Table 8.5.4 Additional Number of Households to be Served in Phase I (Household Toilets) (Cont'd.)

Municipality Affea		No. of Households Se Base Year	scholds Served Base Year	rved in the	No. of			Phas	Phase I Coverage (2000)	age (200)	6		
	l	Pour	VIP	7,040,1	Households in 2000		Household Coverage	Coverage		Additio	nal No. o f Ho	Additional No. of Households to be Served	Served
	uspru .	Flush	Latrine	100		Flush	Pour Flush	VIP Latrine	Total	Flush	Pour Flush	VIP Latrine	Tota!
	0	0	0	0	0	0	0	0	0	Õ	0	0	ণ
	0	792	0	267	381	0	340	18	358	0	73	18	16
Total	C	267	0	267	381	0	340	81	358	0	73	18	16
Sinait	35		7	195	009	113	423	28	564	78	0	21	66
	6	3,266	423	3,692	4,496	3	4.012	2112	4.226	0	746	0	746
Total	38		430	4,253	5.096	1911	4,435	239	4.790	78	746	21	845
Sugpon	0	83	87	170	202	0	181	6	190	0	86	0	86
		118	162	280	342	0	305	16	321	0	187	0	187
Total		201	249	450	\$44	0	486	25	511	0	285	0	285
Suvo	 	861 8		38	327	58	234	15	307	53	36	0	8
	11	169	303	1.011	1,406	11	1,245	99	1.322	0	548	0	248
Total	16		409	1.320	1.733	69	1,479	81	1.629	53	584	0	637
Tagudin	n 146	5 5 583	99	795	933	175	859	44	877	59	75	0	<u>1</u>
	195	3.814	418	4.427	5.280	456	4.259	248	4,963	261	445	0	706
Total	341	1, 4,397	484	5.222	6.213	631	4.917	292	5.840	290	520	0	810
Vigan (Capital) Urban	n 1.005	5 5.618	448	1.071	8.263	1,553	5.826	388	7.767	548	208	0	756
	_	0 0	0	0	0	0	0.	0	0	0	0	0	٥
Total	1.005	5 5.618	448	1.071	8,263	1,553	5.826	388	7.767	548	208	0	756
Urban	n 2.859	9 18.943	1.974	23,776	26.771	4.663	18.984	1,487	25,134	1.804	895	229	2.928
Provincial Total Rural	1 2.783	3 64.201	5.685	72:669	86.534	3.757	73,109	4.171	81.037	974	9.180		11.715
	5.642	2 83.144	659.7	96,445	113,305	8.420	92.093	5.658	106.171	2.778	10,075	1,790	14.643

Table 8.5.5 Additional Number of Households to be Served in Phase II (Household Toilets)

		No. of	Household	No. of Households Served in 2000	2000	4			hase II Co	Phase II Coverage (2010)	- The Annual Control of the Inches			
Manicipality	A 7009	-	DAIL	ar.		Womesholde in		Househo	Households Coverage	3.		of House	Add'l No. of Households to be Served	Served
		Flush	Flush	Latrine	Total	2010	Flush	Pour Flush	VIP Flush	Total	Elush	Pour Flush	VIP Flush	Total
Alilem	Urban	53	199	- 13	265	412	196	195	0	391	143	0	0	143
	Rural	0	727	38	765	1.258	0	1.195	0	1.195	0	468	0	468
	Total	53	976	51	1.030	1.670	196	1.390	0	1.586	143	468	0	611
Banayoyo	Urban	10	145	8	163	239	114	113	0	227	104	0	0	1 <u>8</u>
-	Rural	0	930	49	626	1.610	0	1.530	0	1,530	0	909	0	009
	Total	10	1.075	57	1.142	1.849	114	1.643	0	1.757	194	909	0	704
Bantay	Urban	562	1.064	276	1.902	2,950	1.401	1,402	0	2.803	839	338	0	1.177
	Rural	332	2.823	166	3.321	5,269	938	4.068	0	5.006	909	1.245	0	1.851
	Total	894	3.887	442	5.223	8,219	2,339	5.470	0	7.809	1.445	1.583	0	3.028
Burgos	Urban	.88	218	15	162	436	207	207	0	414	149	0	0	149
	Rurai	67	1.549	- 84	1,682	2.569	46	2.392	0	2,441	0	843	0	843
	Total	107	1.767	66	1,973	3.005	256	2.599	0	2.855	149	843	0	366
Cabugao	Urban	205	1,288	62	1.572	2.309	1.097	1.097	0	2.194	892	0	0	892
	Rural	323	3.614	207	4,144	6,453	428	5,702	0	6,130	105	2.088	0	2.193
	Total	528	4.902	286	5.716	8.762	1.525	6.799	0	8.324	766	2,088	0	3.085
Candon	Urban	277	1.037	69	1,383	2.112	1.003	1,003	0	2.006	726	0	0	726
	Rural	147	6.989	376	7,512	11,697	147	10.965	0	11.112	0	3.976	0	3.976
	Total	424	8.026	445	8.895	13.809	1.150	11,968	0	13.118	726	3.976	0	4.702
Caoayan	Urban	270	1.013	29	1,350	1.983	942	942	0	1.884	672	0	0	672
	Rural	189	1.607	95	1.891	2.834	425	2,267	0	2.692	236	099	0	968
	Total	459	2.620	162	3.241	4.817	1.367	3.209	0	4,576	806	999	0	1.568
Cervantes	Urban	180	205	99	451	762	362	362	0	724	182	157	0	339
	Rural	404	1.626	101	2,137	3.389	404	2.816	0	3,220	0	1,190	0	1.190
	Total	584	1.831	173	2,588	4,151	766	3.178	0	3.944	182	1.347	0	1.529
Galimuyod	Urban	2	75	77	8.1	126	9	09	0	120	88	0	0	58
	Rural	4	1.448	76	1.528	2.424	4	2,299	0	2,303	0	851	0	851
	Total	9	1.523	08	1.609	2.550	64	2,359	0	2,423	88	851	0	606



Table 8.5.5 Additional Number of Households to be Served in Phase II (Household Toilets) (Cont'd.)

					000			9	Poss If Co	Phoco II Coverson (2010)				
		No. of	Household	No. of Households Served in 2000	3	No. of		y	2 11 20	- C. 4 K. C. 4 C. 4 C. 4 C. 4 C. 4 C. 4 C	V	A 44" No of Homebolds to be Sorved	of of S	bev.
Municipality	Area	Flush	Pour Flush	VIP	Total	Households in 2010	Flush	Pour Flush	Pour VIP Flush	Total	Flush	Pour VIP	VIP Flush	Total
G del Pilar	Urban	30	76.	13	119	177	84	8	0	168	5.4	8	٥	62
	Rural	5.4	460	22	541	874	166	664	0	830	112	204	ō	316
	Total	8.	536	40	099	1.051	250	748	0	866	166	212	0	378
l'adtides	Urban	0	231	12	243	364	173	173	0	346	173	0	0	173
	Rurai	0	488	8	514	800	0	760	0	760	0	272	0	272
	Total	Ö	219	38	757	1,164	173	933	0	1.106	173	272	ত	445
Maesingal	Urban	110	406	54	1.071	1.542	732	733	0	1,465	622	0	ö	622
	ign &	9	3,227	176	3.513	5.469	011	5.086	0	5.196	0	1.859	0	1.859
	Total	220	4.134		4,584	1,011	842	5,819	0	6.661	622	1.859	0	2.481
Navbukel	Urban	29	107	.;	143	214	102	101	0	203	73	0	0	73
0	Rural	¢	584	31	615	940	0	893	0	893	0	309	0	309
	Total	25	169	38	758	1,154	102	766	0	1.096	73	309	٥	382
Narvacan	Urhan	108	404	27	539	823	391	391	0	782	283	0	0	283
	Rurai	360	9060		6.789	10.172	360	9,303	0	9.663	0	3,213	0	3.213
	Total	468	6,194		7,328	566.01	157	9.694	0	10,445	283	3.213	ō	3,496
Omitino	Urban	43	213		269	707	192	192	0	384	149	0	٥	149
	Rural	0	1.075		1.132	1.763	0	1.675	0	1.675	0	009	٥	8
V = 2	Total	43	1.288		1.401	. :	19	1.867	0	2,059	671	009	ō	749
Salcedo	Urban	35	224		273	393	181	186	0	373	152	0	ō	152
	Rural	61	1.584	1 8	1.687	2.528	61	2.383	0	2.402	0	799	٥	799
	Total	\$2	1.808		1.960	2,921	206	2.569	0	2,775	152	799	०	951
San Emilio	Urban	Õ	395	21	416	673	320	319	0	639	320	Ö	৹	320
	Rural	0	718		756	661'1	0	1.139	0	1.139	0	421	0	121
	Total	0	1.113		1.172	1.872	320	1.458	0	1.778	320	421	0	741
San Esteban	Urban	20	120	,	147	220		101	0	209	8.5	0	히	85
	Rural	24	1.139	19	1.224	1.763	77	159'1	0	1.675	0	512	0	512
	Total	77	1,259	89	148 1	1,983	129	1.755	0	1.884	85	512	0	265
San Hdeltonso	Urban	24		10	961	299	142	142	0	284	118	0	্	118
	Rural	1.7	169	37	745	1,182	17	1.106	0	1,123	0	415	ि	415
	Total	7	853	47	146	1871	651	1,248	0	1,407	118	415	٥	533
					-									

Table 8.5.5 Additional Number of Households to be Served in Phase II (Household Tollets) (Cont'd.)

		10.0V	No. of Households Serv	s Served in	ed in 2000			*	hase II Co	Phase II Coverage (2010)				
Manipipalita	1		\$			No. 01		Househe	Households Coverage)	Add'IN	o. of House	Add'l No. of Households to be Served	served
in the state of th	Area	Flush	Flush	Latrine	Total	2010	Flush	Pour Flush	VIP Flush	Total	Flush	Pour Flush	VIP Flush	Total
San Juan	Urban	89	109	35	70.5	266	3 472	471	0	943	404	0	0	404
	Rural	174	8	181	3.620	5.423	3 . 174	4.978	0	5:152	0	1.713	0	1.713
	Total	242	3,866	216	1,324	6.416	959 9	5.449	0	6.095	404	1.713	0	2,117
San Vicente	Urban	21	188	1.1	220	349	991 6	166	0.	332	145	0	0	145
	Rural	80	1.742	%	1,918	2.817	08: [/	2,596	0	2,676	0	854	0	854
-	Total	101	1,930	. 107	2.138	3,166	5 246	2,762	0	3,008	145	854	0	666
Santa	Urban	72		81	358	206	5 240	241	0	481	168	0	0	168
	Rural	18	2.071	110	2,199	3,358	8} .24	3.166	0	3,190	9	1,095	0	1,101
	Total	06	2.339	1.28	2.557	3.864	264	3,407	0	3,671	174	1.095	0	1,269
Santa Catalina	Urban	33	881	12	233	363	3 172	173	0	345	. 139	0	0	139
	Rural	124	1.777	100	2,001	3,233	3 124	2.947	0	3.071	0	1.170	0	1.170
	Total	157	1.965	112	2,234	3,596	5 296	3,120	0	3,416	139	1.170	0	1,309
Santa Cruz	Urban	174	653	43	870	1,303	3 619	619	0	1.238	445	0	O	445
	Rural	43	4.802	255	5.100	8.091	1 43	7.643	0	7.686	0	2.841	Ó	2,841
	Total	217	5.455	298	5.970	9.394	4 662	8.262	0	8.924	445	2,841	0	3.286
Santa Lucia	Urban	98	323	22	431	659	313	313	0	929	227	0	0	227
	Rural	117	3,326	181	3.624	5,856	191	5.402	0	5.563	44	2.076	0	2.120
	Total	203	3.649	203	4.055	6.515	5 474	5.715	0	6.189	271	2.076	0	2.347
Santa Maria	Urban	145	544	36	725	1.065	5 506	506	0	1.012	361	0	0	361
	Rural	48	3.	206	4.119	6.293	3 63	5.915	0	5.978	15	2.050	0	2,065
	Total	193	4.409	242	4.844	7,358	8 569	6.421	0	966'9	376	2.050	0	2,426
Santrago	Urban.	88	329	22	439	697	7 331	331	0	662	243	2	0	245
	Rural	593	1.322	227	2.142	3.956	265 [9	3,165	0	3.758	0	1.843	0	1.843
	Total	189	1.651	249	2.581	4,653	3 924	3.496	jo	4,420	243	1,845	0	2.088
Santo Domingo	Urban	61	485	29	575	798		410	0	819	348	0	0	348
	Rural	58	3,409	182	3.649	5,682	2 58	5.340	0	5.398	0	1.931	0	1.931
	Total	119	3.894	211	4.224	6,544	4 467	5.750	0	6.217	348	1.931	0	2.279

Table 8.5.5 Additional Number of Households to be Served in Phase II (Household Toilets) (Cont'd.)

		77.73	Vomobold	Ye of Manual bolds Samon in 2000	2000			G.	hase II Co	Phase II Coverage (2010)				
	-J -	740.0	HOUNCHORD	200 000		No. of		Househo	Households Coverage	e	Add'1 N	of House	Add'i No. of Households to be Served	Served
Municipality	Arca	Flush	Pour Flash	VIP	Total	Households in 2010	Flush	Pour	VIP Flush	Total	Flush	Pour Flush	VIP Flush	Total
. 2				10	C	0	0	O	Φ	0	0	0	o	0
Signy	Droan D.m.1	7 6	2		358	610		580	0	085	0	240	0	240
	Torot	2			358	610	0	280	0	280	0	240	0	240
Cinair	1 feban	113			*	845	401	402	0	803	288	٥	0	288
Singue	Rural		7.2	~	4.226	5.960	3	5.659	0	5.662	0	1.647	0	1.647
	Total	116			4,790	6.805	404	6.061	0	6.465	288	1.647	0	1.935
Common	Tichan	0	l.,		3	285	135	136	0	271	135	٥	0	135
TO SERVICE	Rural	0		16	321	\$29	0	503	0	503	0	198	٥	198
	Total	0			\$11	814	135	629	0	774	135	198	0	333
Conto	Lirhan	88			367	523	248	249	0	497	190	15	٥	205
c c c c c c c c c c c c c c c c c c c	Rural		-		1.322	2.059		1.945	0	1,956	0	700	Ö	700
	Total	89			1.629	2.582	259	2.194	0	2,453	190	715	0	905
477	Linhan	175			877	1.418	674	673	0	1.347	499	15	0	514
Tagaman Tagaman	Rural	456	4	2	4.963	8.165	639	7.118	0	7.757	183	2,859	0	3.042
	Total	631			5.840		1.313	7.791	٥	9 104	682	2.874		3,556
Vigan (Capital)	Urban	1.553	5.826	388	7.767	12,095	5,745	5.745	0	11.490	4.192			4.192
	Rural	Ö		0	0		0 0	0	٥	0	0			0
	Total	1,553	5.826	388	7.767	12.095	5.745	5.745	0	11,490	4 192		0	4,192
	Urban	4.663		1.487	25,134	38,401	18.241	18.241	0	36,482	13.578	535	0	14,113
Provincial Total	Rund	3.757		,	81.037	126,225	5 5.064	114.851	0	119.915	1.307	41.742	0	43.049
	Total	8.420	l	5.658	-		5 23.305	133.092	0	156.397	14,885	42.277	0	57.162
			ŀ											

Table 8.5.6 Additional Number of Public School Students to be Served in Phases I and II (School Toilets)

School Student Public School School Students that Public School School Students to 2000 School School School Students to 2000 School School Scho				Phase I Cov	Phase I Coverage (2000)	Std. No. of	-	Phase II Cov	Phase II Coverage (2010)
1,333	Municipality	Std. No. of Public School Student that can be Served in the Base Year	Projected No. of Public School Students in 2000	Public School Students Coverage	Add'l No. of Public School Students to be Served	Public School Students that can be Served in 2000	Projected No. of Public School Students in 2010	Public School Students Coverage	Add'l No. of Public School Students to be Served
0. 1,340 1,520 1,570 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 1,370 2,580 2,590	A 131	111				1,314		1.513	199
8.552 4,167 3.759 198 3.750 5.691 4.489 2.523 4,167 3.759 1.973 3.750 2.690 4.489 2.239 4,167 3.758 4,167 2.500 2.528 4.489 2.240 2.526 2.529 4,267 2.246 2.777 2.500 4.480 2.480 2.527 2.527 2.527 2.246 2.246 2.246 2.246 2.246 2.246 2.246 2.246 2.246 2.246 2.247 2.246 2.247 2.246 2.247 2.246 2.247 2.246 2.247 2.246 2.247	Recent	1045				1,373		1,635	262
1,422 2,192 1,275 2,286 2,286 4,228 4,22	Gaptax	3 552				3,750			1,656
c,456 5,228 4,706 225 4,706 6,134 c 2,530 1,620 2,558 4,706 2,376 1,242 c 2,530 1,620 2,556 4,706 2,376 1,242 c 2,530 1,660 2,717 1,67 2,022 c 1,600 3,019 2,717 1,67 2,022 c 1,600 3,019 2,717 1,67 1,67 c 1,600 3,019 2,717 1,67 1,67 c 1,600 3,019 2,717 1,67 1,67 c 1,600 3,019 2,717 1,67 1,70 1,70 c 6,64 7,71 4,228 3,68 1,137 1,137 1,137 1,137 1,137 1,137 1,137 1,137 1,137 1,137 1,137 1,138 1,137 1,138 1,137 1,134 1,137 1,138 1,138 1,138 1,138	Purson	1942				1.973			707
8,300 10,620 9,558 4,28 9,558 12,482 a 1,277 2,640 2,376 0,128 2,376 2,272<	Courses Cabusas	4.450				4.705			
c 2,377 2,640 2,379 1,177 2,776 2,923 sed 8,600 3,619 2,377 1,177 2,771 2,722 sed 8,600 3,619 2,777 669 1,575 1,975 sed 652 652 7,97 1,628 1,677 1,077 sed 652 652 7,97 1,035 0 1,075 1,077 sed 4,781 4,781 4,285 8,269 1,675 1,137 sed 4,781 1,150 1,150 1,150 1,150 1,177 sed 4,781 4,781 8,269 2,354 8,268 1,157 sed 2,792 1,234 2,344 2,344 2,344 1,157 sed 5,060 1,476 2,344 2,344 2,344 2,344 sed 5,060 1,476 1,276 2,444 2,738 sed 5,060 1,476 2,476	Capaca	\$ 300			4	855.6			2,300
4 1,600 3,019 2,717 1,117 2,717 3,422 act 850 1,688 1,519 1,519 1,975 3,422 act 850 1,688 1,519 1,519 1,975 1,975 act 850 4,781 1,519 1,519 1,975 1,975 act 1,1,151 1,151 1,152 1,375 3,286 1,137 act 1,100 1,550 1,385 3,286 1,137 1,137 act 1,100 1,575 1,386 1,137 1,137 1,137 bana 1,100 1,575 1,386 1,386 1,137 1,137 bana 1,270 1,435 1,386 1,457 1,396 1,467 bana 1,270 1,435 1,397 1,467 2,344 2,344 2,344 bana 1,270 1,4476 2,344 8,344 1,467 2,344 3,344 cia <th< td=""><td>Carren</td><td>2.377</td><td></td><td></td><td></td><td>2.376</td><td></td><td></td><td></td></th<>	Carren	2.377				2.376			
od 850 1,688 1,519 669 1,519 1,975 iar 694 787 760 86 1,519 1,975 iar 694 797 717 23 717 910 iar 694 797 717 23 717 910 iar 694 797 717 23 717 910 iar 1,151 1,150 1,150 1,252 1,252 1,137 iar 1,100 1,577 1,275 2,244 2,244 2,767 bon 1,279 1,238 8,808 8,808 1,596 1,597 bon 1,279 1,238 8,208 1,597 1,596 censo 2,056 2,344 2,344 2,787 censo 3,058 2,347 3,131 4,228 3,247 censo 2,056 2,347 3,131 4,228 3,247 censo 2,056 2,3	Convain	009 [
Lat 552 622 560 8 560 707 Lat 654 797 717 23 717 910 at 654 797 717 23 717 910 at 1.151 1.156 4.285 8.808 8.56 1.137 at 1.151 1.150 1.375 1.375 2.344 2.34 1.395 1.137 no 4.00 2.600 2.604 2.344 2.94 2.344 2.733 no 4.00 1.375 1.234 8.808 8.808 1.097 no 4.00 2.600 2.344 2.94 2.348 2.733 no 4.00 1.375 1.222 1.34 8.808 1.350 1.360 no 4.00 2.347 4.228 8.208 1.373 1.360 no 4.00 1.345 1.222 1.34 2.34 2.34 no 5.00	California	058						1.876	357
March Marc	Casimoyou Ash Biby	(2)				\$60		672	112
1,151 1,150 1,150 1,035 1,035 1,137 1,13	T. Alicado	709						865	148
1.157 1.150 1.035 0 1.035 1.137 1.130 1.0354 1.0352 1.0354 1.0	Marriage 1	3 450			~			5,330	1,045
A. S. A. S. S. S. S. S. S. S. S. S. S. S. S. S.	Makanikat	1511				1,035		080'1	45
1,100 1,550 1,345 294 1,346 1,997 1,997 1,000 1,575 1,238 2,344 2,344 2,344 2,744	Various	X 4 53						10.036	1,228
1,000 1,00	Omeno	1,100		5 to 5 to 10					
1, 279 1, 278 1, 228 1, 238 1, 238 1, 616 1, 607 1	20,000	2.050						2,644	300
ban 1,279 1,435 1,292 1,667 fonce 749 892 803 1,292 1,667 fonce 749 892 803 1,292 1,550 note 5,086 5,786 5,777 5,277 5,227 5,257 note 900 1,640 2,347 8 2,347 8 2,327 col 2,336 2,347 8 2,147 8 2,347 2,328 col 1,650 5,177 4,659 3,059 4,659 8,102 col 6,488 5,839 2,189 8,102 8,102 col 6,488 5,839 2,189 8,102 8,102 col 6,488 5,839 3,059 4,659 6,134 4,529 6,314 col 6,689 5,480 5,480 5,480 6,810 6,314 4,524 6,314 col 6,520 6,089 6,285 6,285 <th< td=""><td>San Emilyo</td><td>400</td><td></td><td></td><td></td><td></td><td></td><td>1.535</td><td></td></th<>	San Emilyo	400						1.535	
formso 749 892 803 1.350 nne 5,086 5,797 5,217 131 5,217 6,257 nne 5,086 5,797 5,217 131 5,217 6,257 nne 5,086 5,797 5,217 1476 2,830 1,450 2,638 2,347 2,830 2,830 ux 1,450 2,368 2,131 2,131 2,738 2,738 ca 4,250 6,488 5,839 3,218 8,102 2,988 ca 4,680 4,480 4,689 4,228 4,689 6,314 4,324 4,324 comingo 4,00 4,688 4,228 3,131 4,128 6,314 4,324	Nan Estehan	1.279							592
nine 5,086 5,797 5,217 1,476 5,217 6,257 nine 900 1,640 1,476 576 1,476 2,830 ux 2,339 2,608 2,347 8 2,347 2,830 ux 3,650 6,488 2,334 8,121 2,938 cia 1,600 2,177 4,659 3,059 4,659 8,102 ana 1,850 3,479 3,480 2,830 4,659 6,314 aningo 4,097 4,698 4,228 3,099 4,659 6,314 omingo 4,097 4,698 4,228 131 4,228 5,410 omingo 5,520 6,217 5,595 75 5,596 6,376 of,09 6,79 8,196 1,397 8,196 9,400 anistingo 10,152 10,677 9,609 1,397 8,196 6,271 anistingo 1,1397 1,1397 1,1397 1,131 </td <td>San Harlanso</td> <td>749</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,283</td> <td></td>	San Harlanso	749						1,283	
nne 900 1,640 1,476 576 1,476 2,839 tatina 2,339 2,608 2,347 8 2,347 2,938 tatina 1,450 2,368 2,131 2,131 2,738 uz. 3,650 6,488 5,839 2,189 5,839 8,102 cia 1,600 5,177 4,659 3,059 4,659 8,102 cia 1,600 5,177 4,659 3,059 4,659 8,102 arra 1,600 5,177 4,659 3,059 4,659 8,102 cia 1,850 3,479 5,480 5,480 6,314 8,102 omingo 4,097 4,698 4,228 1,31 4,228 6,314 omingo 5,50 4,698 4,228 5,410 4,228 5,410 omingo 5,50 6,21 5,59 6,21 6,22 6,21 omingo 6,79 6,17 8,19 <t< td=""><td>San fuan</td><td>5.086</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td>727</td></t<>	San fuan	5.086	5						727
tatina 2,339 2,608 2,347 8 2,347 2,938 tatina 1,450 2,368 2,131 681 2,131 2,738 uz 3,650 6,488 5,839 2,189 5,839 8,102 cia 1,600 5,177 4,659 3,059 4,659 8,102 arra 1,600 5,177 4,659 3,059 4,659 8,102 arra 1,850 5,177 4,659 3,059 4,659 6,314 arra 1,850 3,479 3,131 1,281 4,324 6,314 orningo 4,097 4,698 4,228 1,31 4,324 6,314 orningo 3,00 4,698 4,228 1,31 4,228 6,314 orningo 3,00 4,698 4,228 1,324 5,410 2,540 orningo 5,50 6,21 5,50 6,21 6,21 6,21 orningo 6,79 6,21	Can Vicente	006							1,213
talina 1,450 2,368 2,131 6,81 2,131 2,738 uz. 3,650 6,488 5,839 2,189 5,839 8,102 cia 1,600 5,177 4,659 3,059 4,659 6,314 arra 5,452 6,089 5,480 2,839 4,659 6,314 orningo 4,097 4,698 5,480 2,88 5,480 6,314 orningo 4,097 4,698 4,632 3,131 1,281 4,324 orningo 4,097 4,698 4,228 1,31 4,324 5,410 orningo 5,520 4,698 4,228 1,31 4,228 5,410 orningo 5,520 4,18 1,18 4,228 5,410 orningo 6,27 5,595 6,27 5,595 6,57 orningo 6,79 6,19 8,196 6,20 6,20 orningo 1,50 8,19 8,10 8,40	Capta	2 339				2,347			444
uz 3.650 6.488 5.839 8.102 cia 1,600 5,177 4.659 3.059 4.659 8.102 arra 1,600 5,177 4.659 3.059 4.659 6,314 arra 5,452 6,089 5,480 5,839 6,314 orningo 4,097 4,698 4,632 3,131 4,324 6,314 orningo 4,097 4,698 4,698 4,228 131 4,324 6,314 orningo 4,097 4,698 4,228 131 4,324 5,410 orningo 5,500 6,217 5,595 6,276 5,505 6,576 state 600 6,17 5,595 6,576 6,576 6,576 appital 10,172 9,107 9,440 1,0729 9,440 appital 10,172 9,609 1,0729 1,0729	Santa Catalina	450							
cta 1,600 5,177 4,659 3,059 4,659 6,314 arra 5,452 6,089 5,480 28 5,480 6,314 orningo 4,097 4,698 3,131 1,281 4,324 6,870 orningo 4,097 4,698 4,228 131 4,228 5,410 orningo 4,097 4,698 4,228 131 4,228 5,410 orningo 5,500 6,277 4,132 1,18 4,228 5,410 orningo 5,500 6,277 4,132 1,18 4,132 5,410 orningo 5,500 6,277 5,595 6,576 6,576 6,576 orningo 6,799 6,799 6,799 6,799 6,799 7,423 6,314 orningo 6,799 6,799 8,196 6,204 1,397 8,196 9,440 orningo 10,172 10,172 9,490 1,072,9 1,072,9	Santa Cruz	3,650							
arra 5,452 6,089 5,480 28 5,480 6,870 omingo 4,097 4,698 4,228 1,311 4,324 4,324 omingo 4,097 4,698 4,228 1,31 4,228 5,410 omingo 4,097 4,698 4,228 1,31 4,228 5,410 omingo 5,520 4,698 4,128 1,18 4,324 5,410 com 5,520 6,217 5,595 75 5,595 6,576 com 6,70 6,71 5,595 6,576 6,276 com 6,70 6,73 8,196 2,104 2,524 appriati 10,172 10,727 9,440 appriati 10,172 9,609 10,729 10,729	Santa Lucia	009						866'5	
omingo 1,850 3,479 3,131 1,281 3,131 4,324 omingo 4,097 4,698 4,228 131 4,228 5,410 comingo 4,097 4,698 4,228 131 4,228 5,410 comingo 4,097 4,698 4,228 131 4,228 5,410 comingo 5,500 6,217 5,595 75 5,595 6,576 comingo 675 608 78 608 747 608 comingo 6,799 9,107 8,196 2,104 2,594 6,400 appital 10,152 10,677 9,609 10,729 10,729	Santa Marta	5,452							1
omingo 4,097 4,698 4,228 131 4,228 5,410 5,520 464 418 118 418 526 6,00 6,217 5,595 75 5,595 6,576 6,00 675 608 8 608 747 1,500 2,338 2,104 2,594 5,400 6,799 9,107 8,196 2,104 2,524 2,104 1,397 8,196 9,440 1,0122 1,0172 1,0172	Santiago	058.1				3,131	,	4,108	1,077
300 464 418 118 526 5,520 6,217 5,595 75 5,595 6,576 6,00 675 608 8 608 747 1,500 2,338 2,104 2,104 2,524 6,799 9,107 8,196 6,196 9,440 2,104 1,397 8,196 9,440 1,0152 10,152 10,729 10,729	Santo Domineo	4,007				4,228		5.140	912
5,520 6,217 5,595 75 5,595 6,576 600 675 608 8 608 747 1,500 2,338 2,104 604 2,104 2,524 6,799 9,107 8,196 9,440 9,440 2pital) 10,152 10,677 9,609 10,350 10,729	Sigar	300				418			
600 675 608 8 608 747 1,500 2,338 2,104 604 2,104 2,524 2,799 9,107 8,196 8,196 9,440 2,9140 10,729 10,729	Sinait	5.520		\$65.5		5.595		6,247	
1,500 2,338 2,104 604 2,104 2,524 2,104 2,524 2,104 2,524 2,105 9,107 8,196 1,397 8,196 9,440 3,101 3,	Sugnon	009		809		809	747	710	102
in 6,799 9,107 8,196 1,397 8,196 9,440 (Capital) 10,152 10,677 9,609 1,0329	Suso	88		2,104		2.104			294
apital) 10.152 10.677 9.609 - 9.609 10.729	Tagudin	6.799		8.196		8,196		8968	177
01 521 1/0 611 525 01 1/0 CV	(Vigan (Capital)	10.152		609.6		609.6			584
Total 93.917 [25,334] 12,800 [9,562] 112,800	Provincial Total	719.59		12,800	19.562	112,800	143,110	135,957	23,157

Table 8.5.7 Number of Public Utilities with Sanitary Toilets in Phases I and II

		Cover	ege in 1995	l Ph	ase I Coverage	(2000) I	No. of PU	- P	rase II Coverag	e (2010)
			No. of PU		Add'l No. of	No. of PU	with		Add I No. of Public	No. of Pt
Municipality	Type	No. of	with	No. of	Public Utilities with	with	Sanitacy	No. of	Citities with	with
		PU	Sanitary	PU	Sanitary	Sanitary	Foilets in	PU	Sanitary	Sanitary
			Toilet	Į.	Tollet	Toilet	2000	•	Toilet	Toilet
Aldeni	Public Markel	0	0	0	0	0	0		ı)
Anen				i		0	0	1		1
	Bus/Jeep Term.	0	- 0	0	0	 		+		
	Total	0	0.	0	0	0	0	2	2	2
Завауоуо	Public Market	0	0	0	0	0.	0	0	0	0
	Bus/Jeep Term.	0	0	0	0	0	. 0	<u> </u>		
	Total .	0	0	0	0	0	0	1	<u> </u>	1
Bantuy	Public Markes	0	0	0	0	0	0	0	0	0
·	Bus/Jeep Term.	3	3	3	0	3	3	3	0	3
	Tetal	3	3	3	0	3	3	3	0	3
Pura se	Public Market	0	0	0	0	0	0	0	0	0
Burgos						1	0	0	0	0
	Bus/Jeep Term.	0	0	0_	0	0		+	<u> </u>	
	Fotal	0	0	0	0	0	0	0	0	- 0
Cabugao	Public Market	t	1		0	<u> </u>		11	0	<u> </u>
	Bus/Jeep Term.	0	0	0	0	0	0	2	2	2
	Total	ŀ	1		0	ı	. 1	3	2	3
Candon .	Public Market		1	,	. 0	1	1	1	0	1
	Bus/Jeep Term.	<u> </u>	i		0	1	i	3	2	3
	Total	- <u> </u>		2	0	2	2	4	2	4
	- 	i — -		+		 	 			<u>`</u>
Caoayan	Public Market	0	0	0	0	0	0	0		
	Bus/Jeep Term.	0	0	0	0	U	- 0	1		L:
:	Total	0	0	0	0	0	0	1	1	1
Cervantes	Public Market	l I	0-	1	1)		1	0	1
	Bus/Jeep Term.	0	0	1	1	: 1	- 1	1	0	1
	Total	1	0	2	2	2	2	2	0	2
Galimuyod	Public Market	0	0	0.	0	0	0	0	0	0
Gastriayou		ŏ	ō	0	ō	0	0	0	0	0
	Bus/Jeep Term.			 				0	0	0 :
	Total	0	0	0		0	0			
G. del Pilar	Public Market	0 -	0	0.	0		0	1 1	ļ!	<u>-</u>
	Bus/Jeep Term	0	0	0	0	0	0	<u> </u>	1	
	Total	0.	0	0	0	0	: 0	. 2	2	
Lidlidda -	Public Market	0	. 0	0	0	0	0	3	1	
	Bus/Jeep Term	0	0	0	0	0	0	1	1	1. 1
	[Ola]	0	0	0	0	0	0	2	2	2
Magsingal	Public Market	1			0			1	0	1
staff stuffat		0	0	0	0	0	0	6	0	0
	Bus/Jeep Term.			+		 			f	
	Total	1		<u> </u>	0	 		1	0	
Nagbukel	Public Market	0	0	0	Q	0	0	0_	0	0
	Bus/Icep Term.	0	: 0	0	0	0	0	1	<u> </u>	<u> </u>
	Total .	0	0	0	: 0	0	0	1_1_	1	
Narvacan	Public Market	1	1	1	0	11		1	0	
	Bus/Icep Term.	1	. 1	1	0	ı	1 1	2	1	2
	Total	2	2	2	0	2	2	3	ì	3
Quirino	Public Market	1	1	1	ð	1	1	1	0	1
- marries	Bus/Jeep Term.	. 0	0	0	0	0	0	1	i	1
			† ·		0	1 1		7		2
	Total	 !	- !	+	 					
Salcedo	Public Market	<u> </u>	ļ!		0			1-1-	0	
	Bus/Jeep Term.	0	0	0	0	<u> </u>	0	. _!_	i	
	Total	1	1	1	0	<u> </u>		2	11	2
San Emilio	Public Market	0	0	0	0	o	0	0	0	0
	Bus/Jeep Term	0	0	0	0	0	0	1	1	1
	Total	o	ō	0	0	0	0	1-	1	1
P 12 - F -			1	+	†	0	0	 ' -		
San Esteban	Public Market	0	0	0	0	 	0		0	0
	Bus/Jeep Term.	0	0	0	0	0		0		

Table 8.5.7 Number of Public Utilities with Sanitary Toilets in Phases I and II (Cont'd.)

		Cover	ge in 1995	Pb	ase I Coverage	(2000)	No. of PU	. Pi	rase II Coverag	e (2010)
			No. of PU		Add I No. of	No. of PU	with		Add I No. of	No. of PU
Menicipality	Туре	No. of	with	No. of	Public	with	Sanitary	No. of	Public Utilities with	with
• •		U4	Sanitary	PU	Utilities with Sanitary	Sanitary	Toilets in	PU.	Sonitary	Sanitary
			Tollet		Toilet	Toilet	2000		Toilet	Toilet
an Ildelfonso	Public Market		l	1	0	1	Į.	ι	0	-
	Bus/Jeep Term	0	0	0	0	0	0	0	0	0
	Fotal	1	1	1	0	ı	1	ı	0	_
an Joan	Public Market	1	1	1	0	ı	1	ı	0	-
	Bus/Jeep Term.	0	0	0	0	0	0	0	0	0
	Total	1	1	i	0	1	1	1	0	l
San Vicente	Public Market	1]	1	0	1	1	3	0	L
	Bus/Jeep Term.	0	0	0	0	0	0	0	0	0
	Total	ı	1	,	0	1	ı	1	0	3
Santa	Public Market		ı	1	0	J	ŀ	1	0	1
	Bus/Jeep Term.	0	0	0	0	0	0	0	0	O
	l'otal	ı	1	1	0	ı	1	1	0	1
Santa Catalina	Public Market	0	0	0	0	0	0	0	0	0
	Bas/Jeep Term.	0	0	0	0	0	0	0	0	0
	Total	0	O	0	0	0	0	Ó	0	U
Santa Cruz	Public Market	ı	I	i	0	1	. !	1	0	ı
	Bus/Jeep Term	0	0	0	0	0	0	1	i .	. 1
	Fetal	1	1	1	0	ı	1	2		2 .
Santa Lucia	Public Market	1	1	ī	0.	ŀ		1	0	11
	Bus/Jeep Term.	0	0	0	0	0	0	C	0	Ö
	Total	1	1	ı	0	1	1	1	0	I
Santa Maria	Public Market	1	1	1	0	1	1	1	0	l
•	Bus/Jeep Term.	Ó	0	0	0	0	0	1	. 1	1
	Total	ŀ	1	1	0	I	ŀ	2		2
Santiago	Public Market	1	0	1	5. 1	1	1 :	ı	0	11
	Bus/Jeep Term.	- 0	0	0	0	0	0	0	0	0
	[eta]	1	0	1	i	1	1	1	0	1 .
Santó Domingo	Public Market	i	1	1	0	3]	1	0	1
,	Bus/Joop Form.	0	0	0.	0	0	0	1	1	1
	Tetat	. 1	1	1	0	1	1	2]1	2
Signy	Public Market	0	0	. 0	()	0	1)	1	1	12
	Bastleep Term.	0	0	0	0	0	0	- ()	0	0
	Tetal	- 0	0	ø	0	Đ i	0 '	1	<u> </u>	1
Sinait .	Public Market	<u> </u>	<u> </u>	!	0	. 1	<u> </u>	1	0	1
	Buyleep Term.	()	0	1	1	- 1	1	2_	1	2
	Testal		1	2		2	2	3		3
Sugpon	Public Market	0	0	0	0	. 0	0		1	
	Bus/Jeep Term	0	0	0	0	0	0	1	<u> </u>	
	Feta1	t):	0	0	0	0	0	_2_	2	?
Soyo	Public Market	Ð.	0	1)	- 0	0	0	1	l	
	Ber/Jeep Term	0	0	()	0	С	0	1	1	<u> </u>
	Total	0	0 :	()		- 6	()	2	2	2
Fagedin	Public Market	1_1_		<u> </u>	0	<u> </u>		<u> </u>	0	1
	Bus/Jeep Term.	0	0	. 0	. 0	- 0	0	2	2	
	Total .		1 -	1-	0	11_	ļ <u>!</u>	-	2	3
Vigais (Capital)	Public Market	1		2	<u> </u>	2	2	2	0	2
	Bus/Jeep Teum.	6	6	6	0	6	6	6	0	6
	fotal	,	7	×	<u> </u>	×	, , , , , , , , , , , , , , , , , , ,	<u> ×</u>	0	<u> </u>
	Public Market	19	17	20	3	20	20	27	,	27
Previncial Tetal	Bus/Jeep Term.	I)	13	13	2	13	13	35	22	35
	Total	30	28	33	5	33	33	45	29	62

Note: PO - Public Offices

8.6 Facilities, Equipment and Rehabilitation Required to Meet the Target Services

8.6.1 Water Supply

(1) Required water supply facilities

Urban water supply:

Urban water supply facilities required by target year shown in Table 8.6.1 were estimated as required number of house connections based on the additional service coverage.

As reference, following requirements were also estimated:

- daily average water demand at 100 lpcd consumption rate, and
- number of deep wells to meet the daily maximum water demand based on the groundwater productivity.

(daily maximum water demand = $1.3 \times \text{daily average water demand}$)

Information pertaining to the expansion plan of Level III systems was arranged to be indicated in Table 8.6.1 and details in Table 8.6.2, however no information was available during this PW4SP preparation.

Rural water supply:

Rural water supply facilities required by target year shown in Table 8.6.3 were estimated as the number of Level II systems with number of communal faucets and number of Level I wells broken-down to deep and shallow wells. Eight (8) untapped springs suitable for Level II system were confirmed during this PW4SP preparation.

(2) Required well drilling and rehabilitation equipment

Presently, only one each unit of truck-mounted and trailer-mounted percussion drilling rigs, each one unit of trailer-mounted and portable mechanical rotary drilling rigs and one unit of air compressor for well rehabilitation are available at DPWH-DEO in the province. Among these equipment, portable mechanized rotary type rig is only capable to drill shallow wells with less than 10m depth owing to its penetration capacity and therefore not applicable for the planned shallow well construction.

Taking into account the maximum utilization of existing equipment, additional number of required equipment is estimated as described below.

Applicable type of well drilling equipment is determined considering the geological formation of the province that 50% of target area is medium to hard formation suitable to percussion type and the rest is soft to medium formation suitable to rotary type. Idling time for equipment overhauling/maintenance and rest days of workers are considered at 25% of the year.

Table 8.6.1 Urban Water Supply Facilities Required by Target Year

	Reference	e on Expansi	on of Exist	Reference on Expansion of Existing Level III System	System			Phase I (2000) Requirements	Requirements			Phase 11 (2010)	Phase II (2010) Requirements	
							ŀ				- [Ī
Municipality	Name of Sytem	T,	Coverage	ge in 1995	Type of Water	Plan for	Additional	Number of House	Daily Average	Number	Additional	Number of	Daily Average	Number
	(Operating Body)		Brgv.	Population	Sources	Expansions		Connections	(cu. m/day)	Deep Well	to be Served	Connections	(cu m/day)	Me⊪ We
Alikem	None	Urban		0										
/-2		Rural	0	0	K.X.	Ä,	363	88	92.	-	1,203	301	130	
3.T.		Total	0	0	:					-				
Banayoyo	None	Urthan	0	0		·								Ī
		Rural	0	٥	N.A.	Y'N	8	91	40	-	857	214	98	
		Total	0	٥	:						•••		;	
Bantay	Metro Vigan W.D	Urban	ø	051.1										
)	Rumi	•	3,750	ŝ	ď Z	016.1	367	5		8.150	2.038	×1×	-
		Total	5	08.4		:					:)	2	•
Burgos	None	Urban	0	٥										Ī
		Rural	°	0	×	¥	44	\$	3	_	1214	Ş	5	
	-	Total	0		- -			;	;	•		<u> </u>	•	
Cabugao	Cahusao Wateckorks System	Lithan	ļ	ş							Ì			Ī
		Z.	, =	7.0	ð,	∀ 2	c	c		c	7 00.7	190	Ş	-
.		Total	ľ	ş	 \$:		·	·	>	>	-	Tex.	76,	-
Candon	966 Z	5		6	1	†- -	-	†						Ī
		(200	,		;	-				,	,			***
		Total		,			3	5/5	<u>*</u>		90.0	1,521	8	~
3000	March Vices W.D.	41	, 	3			1	1						
Cacayan	Archo Vigan W.A.	Cinam		200			- !							<u> </u>
	: : : : :	E TO	,	3.750		< Z	1,193	239	119	-	5.711	1,428	33	p=
		Total	~	2 300					-					
Cervantes	None	Cross	٥	٥										
	-	Rural	0	0	< Z	۲ ۲	482	8	**	_	2,414	\$	77	-
		Total	0	0	:		•					•		
Galimuyod	None	Urban	. 0	o										Ī
		Rural	0	0	< Z	< z	12	64	•		38	117	<i>(</i> 3	•
		Local	0	0		••							:	
C, del Pilar	Barangay Alfonso W.S	Crban	0	0	-		-					-		Ţ-
÷	2	Rura	1	540	ę,	Y Z							-	
		Total	-	340				-:					-	
EVE	Barangay Dapdapig W.S	Urban	0	0								•		
		Rural		360	Ĉ,	ζ.								-
		Total		98										22.7
	Barangay Concencion W.S.	Urban	-	009					-	•				
		Rural	0	0	S.	Š Z		-	•					
		Total	_	009	_	-								-120
wax		Urban	-	009		The second				Ť				
-	Municipal Total	Rural	۲3	00%			•	-0	•	٥	7	•	7	
		Total	3	1400	1000				•	•	:		•	•

Table 8.6.1 Urban Water Supply Facilities Required by Target Year (Cont'd.)

8

								Phone I (2000) Requirements	Reminements			Phase II (2010)	Phase II (2010) Requirements	
	Reference	on Expanse	on of Exert	Reference on Expansion of Examing Level 114 System	System		- }-				r			1
Municipality	Name of Sytem	Š	Coverage	ge in 1995	Type of	Plan for	Additional	Number of House	Daily Average Water Demand	Number	Additional	Number of House	Water Demand	of Deep
	(Operating Body)	4	No. of Brgy.	Population	Sources	Expansions	to be Served	Connections	(cu. m/day)	Deep Well	to be Served	Connections	(cu. m/day)	Wett
Lidlidda	None	Urban	٥	0	·									,
		Rural	0	0	Ϋ́Z	Ϋ́Z	0	:	0	0	1.384	3,	00	
T		Total	0	٥										
Maesingal	None	Urban	٥	0									•	
		Rural	٥	0	₹ Z	٧×	538	91.	*	-	5,321	238	532	
		Total	0	0										
1	,	1,100.00		c										
Nagoukei	21021	Kural			N.	Y Z	186	37	61	1	623	156	Ş	
		Total	°	٥										
Narvacan	Narvacan W.D	Urban	ú	874										
		Rural	٥	٥	λΩ	ď.	819	611	79		1,634	60	163	
		Total	~	874										
Onino	None	Urban	٥	٥									:	•
		Rural	0	0	N.A.	Z.A.	22	4	ដ		1.311	338	131	
		Total	0	0	:									
Salvedo	None	Crean	٥	0	L								;	
		Rum	0	0	N.A.	Ϋ́Z	173	Ж,	12	-	615.1	330	132	_
		Total	0	0										
San Emilio	None	Urban	0	٥					•		3		Š	-
		Rural	0	0	Ϋ́Z	Ý Z	0	0	0	٥	2,550	*	£	-
		Total	0	0										
San Esteban	None	Urban	0	0	,	,							;	
		Rural	0	0	Ϋ́ V	N.A.	103	8	ō		731	183	7.3	
		Total	0	0										
San Ildelfonso	None	Urban	0	0		_					;			-
		Rural	٥	٥	× Z	K Z	611	ខា	드	<u>:</u>	710'1	4	2	•
		1003		,										
San Juan	None	Urban	٥		Ž	Z Z	325	**	33	-	84.	862	35	_
		Total	0	٥	_				:			=		
San Vicente	None	Urban	0	٥	<u> </u>				:				• }	
- Labor		Rural	0	٥	√ Z	Ϋ́	0	cı		- -	1,314	329	5	
		Total	0	0										
Santa	Santa W.D	Urban	4	755									;	
		Rural	٧.	96	çs	v Z	195	4	გ		972	243	6	
		Total	ó	820										
Santa Catalino	None	Urban	0	0					_		-		,	
		Rural	٥	0	z Z	< Z	176	33	<u>&</u>		1,202	Š.	120	
		Total	0	٥										

Table 8.6.1 Urban Water Supply Facilities Required by Target Year (Cont'd.)

			-											
	Reference	Reference on Expansion of Existing Level III System	on of Existi	ng Level III	System			Phase I (2000)	Phase I (2000) Requirements			Phase 11 (2010)	Phase II (2010) Requirements	
Municipality	Name of Sytem		Coverage	e in 1995	Type of	Dies for	Additional	Number of	Daily Average	Number	Additional	Number of	Daily Average	Namber
	(Operating Body)	Š.	No. of Brgy.	Served Population	Water Sources	Expansions2	Population to be Served	House	Water Demand (cu. m/day)	of Deep Well	Population to be Served	House Connections	Water Demand (cu. m/day)	of Deep Well
Santa Cruz	None	Urban	0	0										
	1	Rural	ó	٥	Y Z	۷ Z	936	184	3		4,016	8	204	
		Total	0	0		:			-					-
Santa Lucia	Santa Lucia W.D.	Urban	۲.	076			:							
		Rum	2	8.8	ΑS	ζ. Z.	212	4	72		1.372	343	137	
		Total	\$	1.565										
Santa Maria	Nalvo Water System	Urban	0	0	-									
		Rura	-	056	3	7	2.50	576	133		7114	029		-
		Total	-	8	<u>.</u>		2	3	1	•	3		7,1	
Sannago	Santiago Water System	Urban	2	315										
		Rurai		0	MC.	× //	1774	8	5	_	030	486	104	-
		Total	63	335	:	1		}				}		•
Santo Domingo	No Domingo Water System	1 Irhan	-	ř	-									
		ie iz	-	2	8	× 7	yac	3	ē	_	300	7.4.7	. 0	•
•		2004		2		<	007	ρ,	,	-	8	į		-
Cimer	Mose	Towns	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8										
(agic	2000	Croan		3	•		ı			,		,		THE RE
•. •		Rura	٥	0	ď Z	ď Z	0	0	0	0	0	0	0	•
		ioa	5	٥	1									
Small	Sinait Waterworks	CO.	*	ŝ			-		-					
·		Rural	٥	٥	ă ∆	< Z	•	•	0	0	2,214	554	17	_
		Total	4	- 565										
Sugpon	None	Urban	°	0			٠							
ane.		Rural	٥	٥	۲ Z	ď Z	0	0	0	0	1,083	ī,	108	
		100L	0	٥										
Suyo	None	Urban	0	٥										
···		Rorai	1		Ϋ́N,	X.A.	335	×.	2.		1,652	413	165	-
		I OG	-	3	-							,		
Tagudin	Tagudin W.D	Urban	~	2,660										
		Rucal	20	2,555	Δ¥	√. Y.	Ş	'n	۳,	-	2,69%	675	22	
		Total	ĸ	5,215							-			
Vigan (Capital)	Metro Vigan W.D	Urban	ø	1.150										
		Rural	6	3.750	ď	Z,	6,502	1,227	650	_	33,157	8,289	3,316	**,
		Total	1.5	4,900										
		Urban	46	12,064										
p.	Provincial Total	Rural	69	18,115			990.61	3,669	1,907	53	110,742	27,692	11,073	35
		Total	11.5	30,179			-							
														Ì

Note: I. DW - Deep Well, SP - Spring, D_RW - Dug Well, and Surf - Surface Water. 2. Refer to supporting Table 8.6.3 for details.



Table 8.6.2 Plan for Expansion of Existing Level III System

	Nome	Additional Areas	Additional Population	Additiona	Additional Water Sources
Municipality	Operating Body	Barangay to be Covered	to be Served	Type¹	Capacity (cu. m/day)
Bantay	Metro Vigan W.D	0	0	N.A.	0
o	Cabugao Waterworks System	0	0	N.A.	0
Caoayan	Metro Vigan W.D	0	0	N.A.	0
lar	Barangay Alfonso W.S	0	0	Z.A.	0
	Barangay Dapdapig W.S	0	0	N.A.	0
	Barangay Concepcion W.S	0	0	Z.A.	0
	Municipal Total	0	0		0
Narvacan	Narvacan W.D	0	0	N.A.	0
Santa	Santa W.D	0	0	N.A.	0
Santa Lucia	Santa Lucia W.D	0	0	N.A.	0
Santa Maria	Nalvo Water System	0	0	Z.A.	0
Santiago	Santiago Water System	0	0	N.A.	Ö
Santo Domingo	Sto, Domingo Water System	0	0		0
Sinait	Sinait Waterworks	0	0	N.A.	0
Tagudin	Tagudin W.D	0	0	Y Z	0
Vigan (Capital)	Metro Vigan W.D	0	0	Z.A.	0
	Provincial Total	.0	0		0

Note: 1. DW - Deep Well, SDRW - Dug Well, P - Spring, DRW - Dug Well, and Surf - Surface Water Intake.

Table 8.6.3 Rural Water Supply Facilities Required by Target Year

				į											
		: :	Phase I.(2000) R	(2000) Requirements						Phase I	I (2010)	Phase II (2010) Requirements		-
1	Level II					Level I						Lev	et I		
Municipanty	Number of No. of Communal		Number	r of Deep	Wells	Number of	Number of	Î	Ž	Number of	Deep Wells		Number of	Number of	Total
		30 m	000	70 m	Sub-total	Shallow Wells	Spring Dev.	I OCAL	34) m	50 m 7	70 m Sub-	Sub-total	Shallow Wells	Spring Dev.	۲۸۲
Alilem	0	0 25					1	1.1	0	0	11	0	11	0	44
Banavovo						0		14		ö	14	0	14	7	7
Bantav					37	0	37	0		ó	47	0	47	o	21
Burgos		212	1			0		24		Ó	24	0	24	4	ব
Cabugao	0					0		0		0	65	o	29	3	т,
Candon		-		ŀ		0	1	106		0	106	0	106	jo	ব
Caoavan		L		0	37	0	37	0	27	0	27	ō	27	0	13
Cervantes			L			0		30	1	0	30	ö	30	3	2
Galimuvod		0				0		22		Ö	22	0	22	0	81
G del Pilar		0				0		7		0	7	0	7	0	5
Lidioda		١.				0		7		Ю	7	0	7	0	S
Maggingal		ļ			56	0		0		0	20	0	50.	0	19
Naobukel		1				0		6		ō	6	0	6	9	8
Narvacan		ľ				0	1	96		0	96	O	96	0	٥
Outino						0		16		0	16	0	16	7	^
Salcedo						0		24		ō	24	0	24	0	٥
San Emilio	0	ĺ				0		11		0	11	0	111	0	30
San Esteban		0 20		'		0		17		0	17	0	17	0	7
San Ildelfonso	0					0		0		0	11	0	11	0	15
San Juan		0				0		0		0	51	0	51	0	7
San Vicente	0	0				0		0		0	27	0	77	0	7.
Santo	7			٠		0		٥.		0	31	0	31	0	16
Santa Catalina	0	0				0		0		Ö	28	0	28	0	8
Santa Cruz	0	99 0		0		0		72	0	0	72	0	. 72	Ö	18
Santa Lucia						0		ıs		Ö	51	ō	51	9	9
Santa Maria						00	7	58		ö	58	ō	58	10	10
Santiago	0	29.				0		35	ł	0	35	.	35	Ö	œ
Santo Domingo		0			151	0	15	0		0	52	0	. 52	46	294
Sigav		0		0		0		3		0	3	0	3		
Sinait	0	0				0		0		0	9	0	09		
Sugpon						0		Ş		0	5	0	\$		
Suvo	Ō	0 17		0				19		С	61	0	61		
Tagudin	0	38 0						70		0	70	ò	70		Ī
Vigan (Capitat)	0		0 0	0	0	Ö	>	٥		ō	0	0	0		
Provincial Total	() () ()	735					, T	707	443	0	02.	0	1.150		

Medium size rotary drilling rig (truck-mounted top-head drive type for deep well):

Average performance

I well/20 days (10 m/day of drilling rate with finishing work)

Annual accomplishment

- 13 wells/year (365 days/year + 20 days/well x 0.75)

Required number

8 sets for 50% of the total 999 deep wells

Medium size percussion drilling rig (truck-mounted type for deep well):

Average performance

- 1 well/30 days (5 m/day of drilling rate with finishing work)

Annual accomplishment

- 9 wells/year (365 days/year +30 days/well x 0.75)

Required number

- 12 sets for 50% of the total 999 deep wells

Well rehabilitation equipment:

Average performance

- 1 well/7 days (well redevelopment and finishing work

Annual accomplishment

- 39 wells/year (365 days/year +7 days/well x 0.75)

Required number

- 3 sets for 10% of 999 Level I deep wells

Support vehicle:

Type - pick-up truck with winch, double cab

Required number

- 3 units for well rehabilitation

Considering the utilization of existing percussion drilling rig, the following equipment shall be mobilized/procured either by private sector or LGUs to accomplish the physical targets:

- 7 sets of medium size rotary rig for 50% of deep wells,
- 10 sets of medium size percussion rig for 50% of deep wells
- 2 sets of well rehabilitation equipment for 10% of deep wells (at least 1 set shall be held by the provincial government), and
- 3 units of support vehicle for well rehabilitation.

In addition to the above, service trucks equipped with crane are required for each unit of medium size rotary and percussion rigs for hauling drilling tools and water.

Table 8.6.4 Urban Household Toilets Required by Target Year

cipality Flush	<u> </u>	be Served VIP Latrine 8	200	51 H	No.of HRs			Ą	Add'l HHs	t S	g	e Served No.of	No.of H	No.of HHs Tollets	
Interpanty Flush So od Jar Ino Itio	130 0 0 130 10 10 10 10 10 10 10 10 10 10 10 10 10	irine 8 0		H											
ss 203 ss 0 0 as 203 as 0 0 0 as 1 10	700000000	0 %	Total	Flush	Pour Flush	VIP	Total	Flush	Pour Flush	VIP Latrine	Total	Flash	Pour Flush	VIP	Total
ss 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	∞ ¹	8	45	3	0	100	143	0		143	143		0	143
203 203 203 203 203 203 204 205 205 206 207 207 207 207 207 207 207 207 207 207	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	۱	18	10	0	30	18	81	0	0	ই	<u>Ş</u>	ō	٥	ই
ss 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 0 0 0 130 0 0	Ö	o	0	o	0	0	839	338		1.177	6836		ō	1.177
ss 0 ss 0 od 2 od 2 od 2 od 2 lar 0 si 10 si 10 od 42 od 42 od 43 od 43 od 43 od 43 od 64 od	0 0 0 0	0	136	<u>x</u>	82	0	136	149	0		149			0	\$
ss 0 ss 0 lar 0 lar 0 sal 10 sal 10 sal 10 lio 0 ban 10 tforso 0 tforso 0 traina 13	0 130	ç	4	0	0	40	40	892	0		892			0	892
ss 0 od 2 od 2 od 2 lar 0 sal 10 sal 10 on 18 on 42 daina 10 on 43 on 43 on 43 on 43 on 43 on 43 on 43 on 6 on 6 on 7 on 7 on 7 on 6 on 7 on 7	021	38	241	203	0	38	241	726	0		726		0	0	726
ad location of the color of the	00	Ö	228	86	130	0	228	672	0		672			0	672
od lar al io ban licorso licorso retiens	01	0	0	0	0	0	0	182	157		339		157	o	339
lar n n n lio ban (forwo 1 n talina		0	12	7	0	0	12		0		58			0	58
aj n n lio ban lforso Iforso nrte	0	o	0	ō	0	0	0			0	62	. 54	∞	0	છ
al n n lio ban lforso Iforso onte	7	=	80	0	7	1	8		0		173			0	173
n n lio ban fforso - nte ctalina	4	0	72	10	14	0	24		0	0	622			Ō	622
n lio ban fforso 1 - nte ctalina	o	1-	32	25	0	7	32		Ö		73		0	o	73
lio ban fforso 1 - nte ctalina	ō	27	\$	18	0	1.2	45		0		283			0	283
lio ban fforso 1 - nte ctalina	o	ō	42	42 -	0	0	42		0		149			0	149
lio ban fforso 1 ante ttalina	o	7.	37	99	0	7	37		0		152		0	0	152
steban dellonso lan icente Catalina	8	o	8	0	\$	0	\$		0		320			0	320
delfonso lan icente Catalina	0	7.	17	01	0	7	1,1		0	0	85			0	85
iscente icente Catalina	111	10	21	ō	11	10	21		0		118			0	118
icente Catalina	0	0	43	43	0	0	43		0		404			0	404
Catalina	Ö	=		0	0	1			0	0	145		0	0	145
ima	Ö	0	4	4	0	0	44		0		168			0	168
	Ö	12	25	13	0	71	25		0	0	139			0	139
	0	0	163	163	0	0	163		0		445			0	445
Santa Lucia 46	11/	0	117	46	11	0	117		0		227	ı	0	0	227
Santa Maria 109	0	11	120	100	0	11	120	361	0	0	361			Ō	361
	0	10	63	83	0	10	93	243	2		245		2	Ö	245
mingo	0	81	76	147	0	53	76	348	0	0	348			0	348
Sigav	0	0	0	0	0	0	j0	0	0	0	0		0	0	O
Sinait 78	0	21:	66	78	0	21	66	288	0	0	288	288	0	0	288
Sugpon	86	Ó	86	0	86	0	86	135	0	0	135			0	135
	36	0	68	53	36	0	68	190	15	0	205	190	15	0	205
Tagudin 29	- 22	0	104	562	7.5	0	104	465	5	0	514	499	. 15	ō	514
548	208	0	756	548	208	0	756	4 192	0	0	4.192	4 192	0	0	4.192
Provincial Total 1,804	895	229	2.928	1.804	895	229	2.928	13.578	535	O	14,113	[13.578]	535	0	14.113

Table 8.6.5 Rural Household Toilets Required by Target Year

Municipality Figs Post of the control o				3	0000							Phase	(0100/11	Reconirer	pents		
Name Paper				Loase	7 (2000)	Kedurem	ents.	Technology		1	di UTA	ho Sorved		5	14	Toilets	
Figure Figure Latin Latin Latin Latin Figure Latin Figure Latin Latin Figure Latin Latin Figure Latin Latin Figure Latin Latin Latin Latin Latin Figure Latin Lati	Municipality		Pour Pour		•		Pour	VIP	Total		Pour	VIP		Flush	Pour	VIP	Total
1			Flush	L'atrine			Linsu	- Training	21.5		T JUNE	0	268	0	468	Ö	46%
162 355 251 252 252 152 255	Altlem	5	915	5 7	g k	5 6	210	2 5	Z Z	, c	Ş	i o	88	0	98	0	8
10 10 10 10 10 10 10 10	Вапауоуо	5 (4	17	CC 25	2 5	766	3 8	38	355	1 245	to	1.851	8	1.245	ኞ	1.851
Size Color	Bantay	701	191	57 :	o coc	70	101	11	202		843	0	843	0	843	ō	843
10	Burgos	,	7	2 0	212	212		: c	312	105	2.088	0	2,193	105	2,088	0	2,193
10 10 10 10 10 10 10 10	Cabugao	7	3 4	361	130	71.	2 4	126	132	O	3.976	0	3.976	0	3.976	0	3.976
O 885 O 885 O 885 O 1190 O <t< th=""><th>Candon</th><th>000</th><th>ľ</th><th>30</th><th>742</th><th>3</th><th>\$40</th><th>95</th><th>742</th><th>236</th><th>999</th><th>ō</th><th>896</th><th>236</th><th>98</th><th>0</th><th>896</th></t<>	Candon	000	ľ	30	742	3	\$40	95	742	236	999	ō	896	236	98	0	896
10	Caoayan	00		i e	288	8 0	885	o	885	0	1.19	ō	1.190		_	0	1.190
10 10 10 10 10 10 10 10	Colomorod		ő	2	5	0	ō	53	53	0	158	ō	851			0	851
Colored Colo	C. del Pilor	2			123	52	107	0	1221	112	202	0	316			0	316
Colored Colo	1 (1)(4)				121	0	9	8	12	0	272	0	272			0	272
Color Colo	Moerroe	0	N.	0	547	0	547	ō	547	0	1.859	0	1.859			0	1.859
Column C	Nachalie	C		50	265	O	257	20	265	0	309	0	309			٥	8
Color Colo	Narvacan	0	l		Š	Ö	999	339	506	10	3,213	0	3,213		۳)	0	3.213
Colored Colo	Outrino	0			435	0	435	ō	435	0	909	0	8			0	Ş
O 411 38 449 O 421 O A21 O	Salcedo	0			0	0	٥	0	0	l0	462	0	799			ी	3
O 156 O 1 O 156 O 156 O 156 O 157 O 151 O O O O O O O O O	Can Emilio	C	4	38	449	0		38	671	0	421	0	421			0	421
O 11 37 48 O 11 37 48 O 415 O A15 O O O O O O O O O	Can Fereban	0			217	0		19	217	0	512	0	512			0	512
Column C	San Edelfonso	C			48			37	84	0	415	0	415			Ó	415
national 0 542 0 542 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 854 0 1.170 0	Can Inch	c			735			181	735	0	1.713	0	1.713			0	1.713
13 123 110 246 13 123 110 246 6 1,095 0 1,170 1,170 1,	Can Vicente	Po		L	542		ľ	0	542	O	854	٥	854			0	854
ningo 0 93 9	Santa	<u>E</u>		L	246			110	246	9	1,095	0	1,101			0	1.101
12	Santa Catalina	°			93			6	66	0	1.170	Ö	1.170			0	1.170
iia 70 594 0 664 44 2.076 0 2.120 44 2.076 0 mained 16 83 153 252 16 83 153 252 15 2.050 0 2.065 15 2.050 0 mingo 0 0 0 0 0 0 1.843 0 1.84	Santa Cruz	0	8	ō	382			0	382	0		0	2,841		-	٥	2,841
mingo 16 83 153 252 15 2050 0 2,065 15 2,050 0 2,065 15 2,050 0 0 2,065 15 2,050 0 1,843 0 1,844 0 1,844 0 1,844 0 1,844 0 1,844 0 1,844 0 1,844 0 1,844 0	Santa Lucia	8		0	\$			0	799	7		0	2.120	١		Ö	2,120
mingo 0 0 0 0 0 1.843 0 1.844 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847 0 1.847	Santa Mana	91			252			153	252	\$1		0	2,065				2,065
mingo 0 118 182 360 0 1.931 0 1.931 0 mingo 0 73 18 91 0 240 0 240 0 240 0 0 746 0 746 0 746 0 746 0 1.647 0 1.647 0 1.647 0 0 746 0 746 0 746 0 1.647 0 1.647 0 1.647 0 0 187 0 746 0 187 0 1.647 0 1.647 0 0 187 0 187 0 187 0 188 0 1.647 0 1.647 0 183 2.859 0 248 0 248 0 2.859 0 2.859 0 20 0 0 0 0 0 0 0 0 <th>Santiago</th> <th>0</th> <th></th> <th>0</th> <th>0</th> <th></th> <th></th> <th>0</th> <th>0</th> <th>0</th> <th></th> <th>0</th> <th>1.843</th> <th></th> <th></th> <th></th> <th>1.843</th>	Santiago	0		0	0			0	0	0		0	1.843				1.843
O 73 18 91 O 746 O 746 O 1.647 O O O O O O O O O	Santo Domineo	0			8			182	300	0		Ö	1.931			ं	6
O 746 O 746 O 746 O 746 O 1.647 O O O O O O O O O	Sonv	0	İ	S1	91			18	16	ō		0	240			0	82
O 187 O 187 O 187 O 187 O 198 O	S. Parit	P		0	746			0	746	0	I	0	1.647	ō!		0	1.87
Capital Capi	Sugnon	0		0	187	0	187	0	187	0	861	0	198			0	198
LCapital 261 445 0 706 261 445 0 706 183 2.859 0 3.042 183 2.859 0 1 Capital 0 <th>Succession</th> <td></td> <td></td> <td>0</td> <td>548</td> <td>O</td> <td>548</td> <td>0</td> <td>548</td> <td>0</td> <td>700</td> <td>O</td> <td>302</td> <td></td> <td></td> <td>0</td> <td>, S</td>	Succession			0	548	O	548	0	548	0	700	O	302			0	, S
Total 974 9.180 1.561 11.715 974 9.180 1.561 11.775 1.307 41.742 0 43.049 1.307 41.742 0	Tagistin	261		0	706	261	445	0	706		2.859	0	3,042		()	0	3.042
Total 974 9.180 1.561 11.7151 974 9.180 1.561 11.715 1.307 41.742] 0 43.049 1.307 41.742] 0	Vigan (Capital)			L	0	0	0	O	0	0	0		0	ļ		0	2
	Provincial Total	77.0	L		11.715	774	9.180	-	11.715	1.307	41.742		43,049	_	4	0	43.049

Table 8.6.6 Public School Toilets Required by Target Year

	Phase I (2000) Requir	ements	Phase II ((2010) Requi	rements
Municipality	Add't Public School Students to be Served	No. of Toilet Units	No. of Toilet Facilities	Add'3 Public School Students to be Served	No. of Toilet Units	No. of Toilet Facilities
Ahlem	0	0	0	199	. 4	1
Banayoyo	33	į	0	262	5	
Bantay	198	4	1	1,656	33	7
Burgos	31	1	0	402	8	2
Cabugao	255	5	1	1,122	22	4
Candon	4,258	85	17	2,300	46	. 9
Саозуар	0	0	0	403	8	2
Cervantes	1,117	22	4	534	11	2
Galimuyod	669	13	3	357	7	1
G. del Pitar	8	0	0	112	2	(
Lidlidda	23	0	. 0	148	3	
Mogsingal	835	17	3	1,045	21	2
Nagbukel	0	0	0	45	1	(
Narvacan	355	7		1,228	25	
Quirino	295	- 6		502	10	
Salcedo	294	6	1	300	. 6	
San Emilio	838	17	_3	297	6	
San Esteban	13	, 0	C	292	6	
San Ildelfonso	54	1	C	480	10	
San Juan	131	3	1	727	15	
San Vicente	576	12	2	1,213	24	
Santa	8	0	C	444	9	14.
Sonta Catalina	681	14	3	470	9	
Santa Cruz	2,189	44	9	1,858	37	
Santa Lucia	3,059	61	12	1,339	- 27	
Santo Maria	28	1	C	1,047	21	
Santiago	1,281	26		977	20	
Santo Domingo	131	3	1	912	18	
Sigay	118	2	: 0	82	. 2	(
Sinait	75	2	(652	13	
Sugpon	8	C	(102	. 2	
Suyo	604	12	. 2	294	f	1
Tagudin	1,397	28	(772	15	
Vigan (Capital)		1			1	
Provincial Total	19,562	393	70	23,157	464	9







	G	Phase I (2000) Requirements	Phase II (2010) Requirements
Municipality	Туре	Number of Public Toilets	Number of Public Toilets
Atilem	Public Market	0	
	Bus/Jeepney Term.	0	1
	Total	0	2
Banayoyo	Public Market	0	0
ramayoyo	Bus/Jeepney Term.	0	1
	Total	0	1
Bantay	Public Market	0	0
ramay .	Bus/Jeepney Term.	0	0
	Total	0	0
Burgos	Public Market	0	0
nurgos	Bus/Jeepney Term.	0	0
•	Total	0	0
	Public Market	<u> </u>	0
Cabugao			2
	Bus/Jeepney Term.		2
	Total		0
Candon	Public Market	0	$\frac{1}{2}$
	Bus/Jeepney Term.	0	
·	Total	0	2
Caoayan	Public Market	0	0
	Bus/Jeepney Term.	0	1
	Total	0	1
Cervantes	Public Market	<u> </u>	0
	Bus/Jeepney Term.	1	0
	Total	2	: 0
Galimuyod	Public Market	0	0
,	Bus/Jeepney Term.	0	0
•	Total	0	0
G. del Pilar	Public Market	0	1
	Bus/Jeepney Term.	0	1
* * * * * * * * * * * * * * * * * * *	Total	0	2
Lidlidda	Public Market	0	1
Crondon	Bus/Jeepney Term.	0	1
	Total	0	2
Magsingal	Public Market	0	0
Magangai	Bus/Jeepney Term.	0	0
	Total	0	0
Nagbukel	Public Market	0	0
Nagoukei	Bus/Jeepney Term.	0	
	fotal	0	1
		0	0
Narvacan	Public Market	0	
	Bus/Jeepney Term.	-	
	Total	<u> </u>	0
Quirino	Public Market		V
	Bus/Jeepney Term.	0	
	Total	0	
Salcedo	Public Market	0	0
	Bus/Jeepney Term.	0	1
	Total	0	<u> </u>
San Emilio	Public Market	0	0
	Bus/Jeepney Term.	0	11
	Total	0	1

Table 8.6.7 Public Toilets Required by Target Year (Cont'd.)

Municipality	Туре	Phase I (2000) Requirements	Phase II (2010) Requirements
Municipanty	1,950	Number of Public Toilets	Number of Public Toilets
San Esteban	Public Market	0	, I
	Bus/Jeepney Term.	0	0
4 P	Total	0	I
San Ildelfonso	Public Market	0	0
	Bus/Jeepney Term.	0	0
	Total	0	0
San Juan	Public Market	0	0
•	Bus/Jeepney Term.	0	0
4	Total	0	0
San Vicente	Public Market	0	0
	Bus/Jeepney Term.	0	0
	Total	0	0
Santa	Public Market	0	0
	Bus/Jeepney Term.	0	0
	Total	0	0
Santa Catalina	Public Market	Ŏ	0
	Bus/Jeepney Term.	0	0
	Total	0	0
Santa Cruz	Public Market	0	. 0
onina Crob	Bus/Jeepney Term.	0	<u> </u>
	Total	0	<u> </u>
Santa Lucia	Public Market	0	0
Simila Edeta	Bus/Jeepney Term.	0	0
	Total	0	0
Santa Maria	Public Market	0	0
Ouna Maria	Bus/Jeepney Term.	0	1
	Total	0	<u> </u>
Santiago	Public Market	- i	0
Statiogo	Bus/Jeepney Term.	0	0
	Total	ĭ	0
Santo Domingo	Public Market	0	0
Sano Polimgo	Bus/Jeepney Term.	0	1
	Total	0	1
Sigay	Public Market	0	
31gay	Bus/Jeepney Term.	0	1
•	Total	·····	0
Sinait		0	<u></u>
Smart .	Public Market		0
	Bus/Jeepney Term. Total		
Sugpon	Public Market		
anglym		0	
	Bus/Jeepney Term. Total	0	
Corre	Public Market	0	2
Suyo		0	
•	Bus/Icepney Term.	0	1
Tonulia	Total	0	2
Tagudin	Public Market	0	0 .
•	Bus/Jeepney Term.	0	2
	Total	0	2
Vigan (Capital)	Public Market		0
	Bus/Jeepney Term.	0	0
	Total		0
	Public Market	3	7
Provincial Total	Bus/Jeepney Term.	2	22
	Total	5	29