6. PW4SP DATA FILES

Data files are collection of information revelant to the preparation of PW4SP. Data files are logically group into three major areas of information. The first group of information are the base data that are composed of information derived from survey, ocular inspection, and existing information from the provincial and national agencies. The second group of information are the key parameter data that are composed of information derived from applicable policies, assumption, water test result, and current cost of commodity. The third group of information are the presentation of data which derived from the previously mentioned groups of information's, this data are processed and then logically arranged to show provincial profile, existing facilities and service coverage, past financial performance, future requirement of the relevant sector, cost estimates for future sector development, and financial arrangement.

6.1. Base Information

1. *Socio-economic Data* (socio.xls)
   a) Administrative Composition ((M) Administrative Composition)
   b) Past Population ((M) Past Population Page 1 to 2)
   c) Projected Population ((M) Projected Population)
   d) Household ((M) Household)
   e) Services ((M) Services)
   f) Occupation ((M) Occupation)
   g) Family Income, Education and Literacy ((M) Family Income and Education)

2. *Land Use Data* (landuse.xls)
   a) Existing Land Use ((M) Existing Land Use)
   b) Future Land Use ((M) Future Land Use)

3. *Health Data* (health.xls)
   a) Morbidity, Mortality and Infant Mortality ((M) Morbidity and Mortality)
   b) Facility and Practitioner ((M) FacilityPractitioner)

4. *Water Resource Data* (h2ores.xls)
   a) General Information ((M) General Information)
   b) Water Source Information ((M) Source Information)

5. *Water Supply Systems Data* (h2osupp.xls)
   a) Level III Systems ((S) Level III P1-2 .. P2-2)
   b) Level II Systems ((S) Level II P1-4 .. P4-4)

6. *Environmental Sanitation Data* (sanit.xls)

    a) Household Toilets ((M) Household Toilets)
    b) School and Public Toilets ((M) Sch. and Pub. Toilets)
    c) Drainage Facility ((M) Drainage Facility)
    d) Solid Waste Collection and Disposal ((M) Solid Waste)

7. *Investment Data* (invest.xls)

    a) Previous Annual Investment ((P) Fin. Past Ann. Invest.)
    b) Planned Annual Investment ((P) Fin. Future Ann. Invest.)

6.2.   **Key Parameter**

1. *Key Parameters* (keypar.xls)

    a) Key Parameter (Key Parameter)
    b) Level I - Safe and Unsafe (Level I Safe and Unsafe)
    c) Well Source Composition (Well Source Composition)
    d) Unit Cost (Unit Cost)
    e) Scoring Factor (Scoring Factor)
    f) Annual Investment (Annual Investment)

6.3.   **Data Presentation**

1. *Provincial Profile* (chap-3.xls)

    a) Outline of City and Municipalities (MTable 3.1.1)
    b) Current Land Use (MTable 3.2.1)
    c) Drainage Areas and Flow Rates of Major Rivers (MTable 3.2.2)
    d) Distribution of Households by Income Class (MFigure 3.3.1)
    e) Population Distribution by Occupation (Figure 3.3.2)
    f) Population Distribution by Highest Attainment of Education (MFigure 3.3.3)
    g) Provincial Outline on Public Services (MTable 3.3.1)
    h) Public Facilities and Services by Municipality (MTable 3.3.2)
    i) Previous Population Development of the Province (MFigure 3.4.1)
    j) Previous Population Development by Municipality (MTable 3.4.1)
    k) Present Population Distribution (MFigure 3.4.2)
    l) Outline of Urban and Rural Areas in the Province (MTable 3.4.2)
    m) Household Numbers and Household Sizes (MTable 3.4.3)
    n) Number and Rates of Ten Leading Causes of Morbidity,
       Mortality and Infant Mortality (MTable 3.5.1)
    o) Reported Cases and Deaths of Notifiable Water Related Diseases (MTable 3.5.2)
    p) Municipal Solid Waste Collection and Disposal, and
       Service Coverage in 1994 (MTable 3.6.1)
    q) Number and Ratio of Population to Health Facilities
       and/or Medical Practitioners (STable 3.5.1)
    r) Types of Drainage Facilities (STable 3.6.1)
    s) DENR Water Quality Criteria/Water Usage and Classification
       for Fresh Water (STable 3.6.2)

2. *Existing Facilities and Service Coverage* (chap-4.xls)

    a) Information on Existing Level III Systems (MTable 4.1.2)
    b) Information on Water District (MTable 4.1.3)

c) Information on Existing Level II Systems (MTable 4.1.4)
d) Information on Existing Level I Facilities (MTable 4.1.5)
e) Water Supply Service Coverage by Municipality in 1994 (MTable 4.1.7)
f) Water Supply Service Coverage by Municipality (MFigure 4.1.1)
g) Sanitation Facilities and Service of Household Toilets, Urban and
   Rural, 1994 (MTable 4.2.1)
h) Provincial Service Coverage of Household Toilet Facilities, 1994 (MFigure 4.2.1)
i) School Toilet Facilities and Service Coverage in 1994 (MTable 4.2.2)
j) Public Toilet Facilities and Service Coverage in 1994 (MTable 4.2.3)
k) Details on Existing Level III Systems (STable 4.1.1 Sheet 1 to 4)
l) Details on Existing Level II System (STable 4.1.2 Sheet 1 to 6)
m) Number of Level I Facilities by Safe and Unsafe Classification (STable 4.1.4)
n) Estimation of Unserved Population by Municipality (STable 4.1.5)
o) Estimation of Population Covered by Safe and Unsafe Source
   by Municipality (STable 4.1.6 Sheet 1 to 2)
p) Sanitation Facilities and Service Coverage of Household Toilets
   by Type, by Municipality, Urban and Rural, 1994 (STable 4.2.1)

3) *Past Financial Performance in Water Supply and Sanitation* (chap-6.xls)

a) Previous Sector Investment to the Province by Concerned Agency (MTable 6.2.1)
b) Past Internal Allotment to the Province from Central Government (MTable 6.2.2)
c) Affordability in Water and Sanitation Services (MTable 6.4.1)
d) Financial Indicators of Water Districts (MTable 6.5.1)
e) Loan Status of Water Districts (MTable 6.5.2)
f) Past Internal Revenue Allotment to Municipalities from
   Central Government(STable 6.2.1)

4) *Water Source Development* (chap-7.xls)

a) Existing Groundwater Sources in the Province (MTable 7.1.1)
b) Work Flow of Groundwater Availability Map (SFigure 7.3.1)
c) Existing Spring Sources by Municipality (STable 7.4.1)
d) River Information and Related Data (STable 7.5.1)
e) Water Quality Analysis Results (STable 7.5.2)
f) Existing Well Sources (STable 7.6.1)
g) Standard Specification of Wells by Municipality (STable 7.6.2)

5) *Future Requirement in Water Supply and Sanitation Environment* (chap-8.xls)

1) Provincial Sector Targets (MTable 8.2.1)
2) Base Year Service Coverage of Water Supply (MTable 8.2.2)
3) Base Year Service Coverage of Household Toilets (MTable 8.2.3)
4) Base Year Service Coverage of Public School Toilets and
   Public Toilets (MTable 8.2.4)
5) Base Year Service Coverage of Municipal Solid Waste System in 1994 (MTable 8.2.5)
6) Future Population by Urban and Rural Area by Municipality (MTable 8.3.1)
7) Projected Public School Enrollment and Number of Public Utility
   by Municipality (MTable 8.3.2)
8) Population to be Served by Target Year (Water Supply) (MTable 8.5.1)
9) Additional Number of Households to be Served by Target Year
   (Household Toilets) (MTable 8.5.2)
10) Additional Number of Public School Student to be Served by
    Target Year (School Toilets) (MTable 8.5.3)

11) Additional Number of Public Utilities with Sanitary Toilets
   by Target Year (MTable 8.5.4)
12) Population to be Served by Urban Sewerage in Phase II (MTable 8.5.5)
13) Additional Number of Urban Households to be Served by
   Municipal Solid Waste System in Phase I (MTable 8.5.6)
14) Water Supply Facilities Required by Target Year (MTable 8.6.1)
15) Sanitation Facilities Required by Target Year (MTable 8.6.2)
16) Number of Garbage Collection Trucks Required in Phase I (MTable 8.6.3)
17) Estimation of Base Year Service Coverage of Water Supply (STable 8.2.1)
18) Population Coverage in Phase I Provided by Served Population
   in the Base Year (STable 8.2.2)
19) Number of Households Served by Sanitary Toilets in the
   Base Year (1994)(STable 8.2.3)
20) Number of Public School Student Served by School Toilets in the
   Base Year (STable 8.2.4)
21) Number of Public Utilities with Sanitary Toilets in the
   Base Year (1994) (STable 8.2.5)
22) Households Coverage in Phase I Provided by Existing Facilities in the
   Base Year (Household Toilets) (STable 8.2.6)
23) Public School and Public Coverage in Phase I Provided by
   Existing Facilities in the Base Year (STable 8.2.7)
24) Projected Number of Households by Urban and Rural Areas by
   Municipality by Target Year (STable 8.3.5)
25) Projected School Enrollment by Municipality by Target Year (STable 8.3.6)
26) Projected Number of Public Utilities by Municipality by Target Year (STable 8.3.7)
27) Population to be Served by Level II System in Phase I (STable 8.5.1)
28) Population to be Served in Phase I (Water Supply) (STable 8.5.2)
29) Population to be Served in Phase II (Water Supply) (STable 8.5.3)
30) Additional Number of Households to be Served in
   Phase I (Household Toilets) (STable 8.5.4)
31) Additional Number of Households to be Served in
   Phase II (Household Toilets) (STable 8.5.5)
32) Additional Number of Public School Students to be Served in
   Phase I and II (School Toilets) (STable 8.5.6)
33) Additional Number of Public Utilities with Sanitary Toilets in
   Phase I and II (STable 8.5.7)
34) Urban Water Supply Facilities Required by Target Year (STable 8.6.1)
35) Plan for Expansion of Existing Level III System (STable 8.6.2)
36) Rural Water Supply Facilities Required by Target Year (STable 8.6.3)
37) Urban Household Toilets Required by Target Year (STable 8.6.4)
38) Rural Household Toilet Required by Target Year (STable 8.6.5)
39) Public School Toilets Required by Target Year (STable 8.6.6)
40) Public Toilets Required by Target Year (STable 8.6.7)

6) *Cost Estimates for Future Sector Development* (chap-10.xls)

   a) Unit Cost of Facilities by Type and Service Level (MTable 10.2.1)
   b) Construction Cost of Required Facilities by Municipality (MTable 10.3.1)
   c) Recurrent Cost (MTable 10.4.1)
   d) Unit Cost of Level I (Deep Well - 40 meter Depth) (STable 10.2.1)
   e) Unit Cost of Level I (Deep Well - 80 meter Depth (STable 10.2.2)
   f) Unit Cost of Level I (Deep Well - 120 meter Depth) (STable 10.2.3)
   g) Unit Cost of Level I (Deep Well Rehabilitation) (STable 10.2.4)
   h) Unit Cost of Level I (Shallow Well - 18 meter Depth) (STable 10.2.5)

i) Unit Cost of Level II (600 Service Population) (STable 10.2.6)
j) Unit Cost of Level III (5,000 Service Population) (STable 10.2.7)
k) Unit Cost of Level III (10,000 Service Population) (STable 10.2.8)
l) Unit Cost of Level III (15,000 Service Population) (STable 10.2.9)
m) Unit Cost of Flush Water Sealed with Septic Tank Toilet (STable 10.2.10)
n) Unit Cost of Pour Flush with Double Pit Latrine (STable 10.2.11)
o) Unit Cost of Ventilated Improved Pit Latrine (STable 10..2.12)
p) Unit Cost of School Toilet (STable 10.2.13)
q) Unit Cost of Public Toilet (STable 10.2.14)
r) Construction Cost of Water Supply Facilities Required for
   Phase I (2000) (STable 10.3.1)
s) Construction Cost of Water Supply Facilities Required for
   Phase II (2010) (STable 10.3.2)
t) Cost of Sanitation Facilities Required for Phase I (2000) (STable 10.3.3)
u) Cost of Sanitation Facilities Required for Phase II (2010) (STable 10.3.4)

7) *Financial Arrangements* (chap-11.xls)

   a) Projected Internal Revenue Allotment for Medium-Term
      Sector Development (MTable 11.2.1)
   b) Projected Allotment of IRA to the Relevant Sector by
      Component, 1996-2000 (MTable 11.2.2)
   c) Financing Requirements by Sector Component for the Province (MTable 11.3.1)
   d) Additional Fund Requirement for Medium-Term Plan (MTable 11.3.2)
   e) Internal Revenue Allotment for Water Supply and Sanitation Sector
      by Municipality (Medium-Term Development 1996-2000) (MTable 11.3.3)
   f) Relationship between Funding Levels and Percent of Coverage
      for Water Supply Sector (MFigure 11.4.1)
   g) Relationship between Funding Levels and Percent of Coverage
      for Sanitation Sector (MFigure 11.4.2)
   h) Municipal Investment Need Ranking for Urban Water Supply (MTable 11.4.1)
   i) Distribution of Provincial IRA to Municipality for
      Urban Water Supply (MTable 11.4.2)
   j) Municipal Investment Need Ranking (MTable 11.4.3)
   k) Percentages for Annual Investment (STable 11.3.1)
   l) Comprehensive Investment Need Ranking of the Municipalities (STable 11.4.1)

7.   DATA FILES LINKAGES

Linkages are logical connection between records in the data files. Through linkages, once the user's updates the source data, all data in the streams of linkages are dynamically updated. Linkages are the convenient tools of updating related data, these also shield the user's from the complexity of formula manipulation. With the aid of the data linkages the user's can concentrate more in validating the source data.

The following table lists the logical connections for each worksheet.

Table 2.6.2   Data File Linkages

	Destination Link			Source Link	
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 3	MT 3.1.1	Outline of City and Municipality	Socio.xls	M 1.2.2	Past Population Page 2
	MT 3.2.1	Current LandUse	Landuse.xls	M 2.1	Existing Landuse
	MF 3.3.1	Disitbution of Households by Income Class	Chap-3.xls	ST 3.3.1	Distribution of Household by Income Class
	MF 3.3.2	Population Distribution by Occupation	Chap-3.xls	ST 3.3.2	Gainful Workers by Occupation Group and Major Industry Group
	MF 3.3.3	Population Distribution by Highest Attainment of Education	Chap-3.xls	ST 3.3.3	Household Population by Highest Education Attainment
	MT 3.4.1 & MF 3.4.1	Previous Population Development by Municipality	Socio.xls	MT 1.2.1	Past Population Page 1
				M 1.2.2	Past Population Page 2
	MF 3.4.2	Present Population Distribution	Socio.xls	M 1.2.2	Past Population Page 2
	MT 3.4.2	Outline of Urban and Rural Areas in the Province	Chap-3.xls	MT 3.1.1 ST 3.3.2	Outline of City and Municipality Education Level and Literacy of Population
			Socio.xls	M 1.2.2	Past Population Page 2
	MT 3.4.3	Households Numbers and Household Sizes	Socio.xls	M 1.4	Household Number
			Chap-3.xls	MT 3.4.2	Outline of Urban and Rural Areas in the Province
	MT 3.5.1	Number and Rates of Ten Leading Causes of Mobidity, Mortality, & Infant Mortality	Health.xls	M 3.1	Morbidity and Mortality Summary
	MT 3.5.2	Reported Cases and Deaths of Notifiable Water related Diseases	Health.xls	M 3.1	Morbidity and Mortality Summary
	MT 3.6.1	Municipal Solid Waste Collection and Disposal, and Service Coverage, 1994	Socio.xls Sanit.xls Chap-3.xls	M 1.4 M 6.5 MT 3.3.2	Household Number SolidWaste Collection and Disposal Public Facilities and Services by Municipality
	ST 3.3.1	Number of Family by Income Class by Municipality	Socio.xls	M 1.7	Family Income and Education
	ST 3.3.2	Population Distribution by Occupation	Socio.xls	M 1.6	Occupation
	ST 3.3.3	Education Level and Literacy of Population	Socio.xls	M 1.7	Family Income and Education
Chapter - 4	MT 4.1.2	Information on Existing Level III Systems	Chap-4.xls	ST 4.1.1 Sheet 1.3, and 4	Information on Existing Level III Systems

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Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table,
M - Questionnaire Form (Municipal Data), S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).
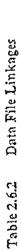
Table 2.6.2   Data File Linkages

	Destination Link		Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 4	MT 4.1.3	Information on Water District Data	Chap-4.xls	ST 4.1.1 Sheet 1 & 4	Information on Existing Level III System
	MT 4.1.4	Information on Existing Level II System	Chap-4.xls	ST 4.1.2 Sheet 1 & 2	Existing Level II System
	MT 4.1.5	Estimation of Unserved Population by Municipality	Chap-4.xls	ST 4.1.4 / ST 4.1.6 Sheet 1 & 2	Number of Level I Facilities by Safe and Unsafe Classification / Estimation of Population Covered by Safe and Unsafe Source by Municipality
	MT 4.1.7	Water Supply Service Coverage by Municipality	Chap-4.xls / Socio.xls	ST 4.1.6 Sheet 2 / M 1.3	Estimation of Population Covered by Safe and Unsafe Source by Municipality / Projected Population
	MT 4.2.1	Sanitation Facilities and Service Coverage of Household Toilets, Urban and Rural, 1994	Socio.xls / Chap-4.xls	M 1.4 / ST 4.2.1	Household Number / Sanitation Facilities and Service Coverage of Household Toilets, by Type, by Municipality, Urban and Rural, 1994
	MT 4.2.2 Sheet 1	School Toilets Facilities and Service Coverage, 1994	Sanit.xls	M 6.2	School Toilets
	MT 4.2.2 Sheet 2	Public Toilets Facilities and Service Coverage, 1994	Sanit.xls	M 6.3	Public Toilets
	MF 4.1.1	Water Supply Coverage of the Province	Chap-4.xls	MT 4.1.7	Water Supply Service Coverage by Municipality
	ST 4.1.4	Number of Level I Facilities by Safe and Unsafe Classification	H2OSupp.xls / Keypar.xls	(F) 5.3.1 / ST 2.6.5	Level I Facility / Level I Safe and Unsafe Percentage
	ST 4.1.5	Estimation of Unserved Population by Municipality	Socio.xls / Chap-4.xls	M 1.2.2 / ST 4.1.6 Sheet 1 & 2 / ST 4.1.2 Sheet 2	Past Population Page 2 / Estimation of Population covered by Safe and Unsafe / Details on Existing Level II System
	ST 4.2.1	Sanitation Facilities and Service of Household Toilets by Type, by Municipality, Urban and Rural, 1994	Socio.xls	M 1.4	Household Number
			Sanit.xls	M 6.1	Household Toilets

Note: MT - Main Report Table.   MF - Main Report Figure.   ST - Supporting Report Table.
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Table 2.6.2   Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 4	ST 4.1.6 Sheet 1	Estimation of Population Covered by Safe and Unsafe Source by Municipality	Chap-4.xls	ST 4.1.4	Number of Level 1 Facilities by Safe and Unsafe Classification
				ST 4.1.5	Estimation of Unserved Population by Municipality
	ST 4.1.6 Sheet 2	Estimation of Population Covered by Safe and Unsafe Source by Municipality	Chap-4.xls	ST 4.1.5	Estimation of Unserved Population by Municipality
				ST 4.1.6 Sheet 1	Estimation of Population Covered by Safe and Unsafe Source by Municipality
Chapter - 8	MT 8.2.1	Provincial Sector Targets	Keypar.xls Chap-8.xls	ST 2.6.2 MT 8.5.1	Key Parameter Table Population to be served by target year(Water Supply)
				MT 8.5.2	Additional Number of Households to be Served by Target Year(Household Toilets)
				MT 8.5.5	Population to be Served in Urban Sewerage in Phase 11
				MT 8.5.6	Add'l No.of Urban Households to be served by Municipal Solid Waste System in Phase 1
				ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases 1 and 11
				ST 8.6.6	Public School Toilets Required by Target Year
	MT 8.2.2	Base Year Coverage in Water Supply	Chap-4.xls Chap-8.xls	MT 4.1.7 ST 8.2.1	Water Supply Service Coverage by Municipality Estimation of Base Year Service Coverage of Water Supply
				MT 8.3.1	Future Population by Urban and Rural Area by Municipality
	MT 8.2.3	Base Year Service Coverage of Household Toilets	Chap-8.xls	ST 8.2.3	Number of Households Served by Sanitary Toilets in the Base Year(1994)
				MT 8.3.1	Future Population by Urban and Rural Area by Municipality
	MT 8.2.4	Base Year Service Coverage of Public School Toilets and Public Toilets	Chap-4.xls	MT 4.2.2 Sheet 1	Scool Toilet Facilities and Service Coverage in 1994

Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table,
M - Questionnaire Form (Municipal Data), S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).

Table 2.6.2   Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 8	MT 8.2.4	Base Year Service Coverage of Public School Toilets and Public Toilets	Chap-8.xls	ST 8.2.4	Number of Public School Students Served by School Toilets in the Base Year (1994).
				ST 8.2.7	Public School Students and Public Utilities Coverage in Phase I Provided by Existing Facilities in the Base Year
	MT 8.2.5	Base Year Service Coverage of Municipal Solid Waste System in 1994	Chap-3.xls	MT 3.6.1	Municipal Solid Waste Collection and Disposal, and Service Coverage, 1994.
			Chap-8.xls	ST 8.3.5	Projected No. of Households by Urban and Rural Area by Municipality by Target Year
	MT 8.3.1	Future Population by Urban and Rural Area by Municipality	Socio.xls	M 1.2.2	Past Population Page 2
				M 1.3	Projected Population
	MT 8.3.2	Projected Public School Enrollment and Number of Public Utility Facilities by Municipality	Chap-8.xls	ST 8.3.6	Projected School Enrollment by Municipality by Target Year
				ST 8.3.7	Projected No. of Public Utilities by Municipality by Target Year
	MT 8.5.1	Population to be Served by Target Year(Water Supply)	Chap-8.xls	ST 8.2.2	Population Coverage in Phase I Provided by Served Population in the Base Year(Water Supply)
				ST 8.5.2	Population to be Served in Phase I (Water Supply)
				ST 8.5.3	Population to be Served in Phase II (Water Supply)
	MT 8.5.2	Additional Number of Households to be Served by Target Year(Household Toilets)	Chap-8.xls	ST 8.5.4	Additional Number of Households to be Served in Phase I(Household Toilets)
				ST 8.5.5	Additional Number of Households to be Served in Phase II (Household Toilets)
	MT 8.5.3	Additional Number of Public School Students to be Served by target Year(School Toilets)	Chap-8.xls	ST 8.3.6	Projected School Enrollment by Municipality by Target Year
				ST 8.5.6	Additional Number of Public School Students to be Served in Phases I and II(School Toilets)
	MT 8.5.4	Additional Number of Public Utilities with Sanitary Toilets by Target Year	Chap-8.xls	ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases I and II
	MT 8.5.5	Population to be Served by Urban Sewerage in Phase II	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
				MT 8.3.1	Future Population by Urban and Rural Area by Municipality

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Table 2.6.2   Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 8	MT 8.5.5	Population to be Served by Urban Sewerage in Phase II	Chap-8.xls	MT 8.5.1	Population to be Served by Target Year(Water Supply)
	MT 8.5.6	Add'l No. of Urban Households to be Served by Municipal Solid Waste System in Phase 1	Chap-8.xls	MT 8.2.1	Provincial Sector Targets
				MT 8.2.5	Base Year Service Coverage of Municipal Solid Waste System in 1994
			Chap-8.xls	ST 8.3.5	Projected No. of Households by Urban and Rural Area by Municipality by Target Year
	MT 8.6.1	Water Supply Facilities Required by Target Year	Chap-8.xls	ST 8.6.1	Urban Water Supply Facilities Required by Target Year
				ST 8.6.3	Rural Water Supply Facilities Required by Target Year
	MT 8.6.2	Sanitation Facilities Required by Target Year	Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by Municipality
				MT 8.5.2	Additional No. of Household to be Served by Target Year(Household Toilets)
				ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases I and II
				ST 8.6.6	Public School Toilets Required by Target Year
	MT 8.6.3	Number of Garbage Collection Trucks Required in Phase 1	Chap-8.xls	MT 8.5.6	Add'l No. of Urban Households to be Served by Municipal Solid Waste System in Phase 1
	ST 8.2.1	Estimation of Base Year Service Coverage of Water Supply	Chap-4.xls	MT 4.1.7	Water Supply Serveice Coverage by Municipality
			Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by Municipality
	ST 8.2.2	Population Coverage in Phase 1 Provided by Served Population in the Base Year (Water Supply)	Chap-8.xls	MT 8.2.2	Base Year Coverage in Water Supply
				MT 8.3.1	Future Population by Urban and Rural Area by Municipality
	ST 8.2.3	Number of Households Served by Sanitary Toilets in the Base Year (1994)	Chap-4.xls	ST 4.2.1	Sanitation Facilities and Service of Household Toilets by Type, by Municipality, Urban and Rural, 1994
			Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by Municipality

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Table 2.6.2   Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 8	ST 8.2.3	Number of Households Served by Sanitary Toilets in the Base Year (1994)	Chap-8.xls	ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
	ST 8.2.4	Number of Public School Students Served by School Toilets in the Base Year(1994)	Chap-4.xls	MT 4.2.2 Sheet 1	School Toilets Facilities and Service Coverage, 1994
			Chap-8.xls	ST 8.3.6	Projected School Enrollment by Municipality by Target Year
	ST 8.2.5	Number of Public Utilities with Sanitary Toilets in the Base Year (1994)	Chap-4.xls	MT 4.2.2 Sheet 2	Public Toilets Facilities and Service Coverage, 1994
	ST 8.2.6	Household Coverage in Phase 1 Provided by Existing Facilities in the Base Year (Household Toilets)	Socio.xls	M 1.4	Household Number
			Chap-8.xls	MT 8.2.3	Base Year Service Coverage of Household Toilets
				ST 8.2.3	Number of Households Served by Sanitary Toilets in the Base Year (1994).
				ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
	ST 8.2.7	Public School Students and Public Utilities Coverage in Phase 1 Provided by Existing Facilities in the Base Year	Chap-8.xls	ST 8.2.4	Number of Public School Students Served by School Toilets in the Base Year(1994)
				ST 8.2.5	Number of Public Utilities with Sanitary Toilets in the Base Year (1994)
				ST 8.3.6	Projected School Enrollment by Municipality by Target Year
				ST 8.3.7	Projected No. of Public Utilities by Municipality by Target Year
	ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year	Socio.xls	M 1.2.2	Past Population Page 2
				M 1.3	Projected Population
				M 1.4	Household Number
	ST 8.3.6	Projected School Enrollment by Municipality by Target Year	Socio.xls	M 1.2.2	Past Population Page 2
				M 1.3	Projected Population
	ST 8.3.7	Projected Number of Public Utilities by Municipality by Target Year	Chap-8.xls	ST 8.2.5	Number of Public Utilities with Sanitary Toilets in the Base Year (1994)

Note: MT - Main Report Table.   MF - Main Report Figure.   ST - Supporting Report Table.
M - Questionnaire Form (Municipal Data).   S - Questionnaire Form (System Data).   F - Questionnaire Form (Facility Data).

Table 2.6.2   Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 8	ST 8.5.1	Population to be Served by Level II System in Phase I	Socio.xls, Chap-8.xls	M 1.1, ST 8.3.5	Administrative Composition... / Projected Number of Households by Urban and Rural Area by Municipality by Target Year
	ST 8.5.2	Population to be served in Phase I (Water Supply)	Socio.xls, Chap-8.xls	M 1.3, MT 8.2.2, ST 8.5.1	Projected Population / Base Year Coverage in Water Supply / Population to be Served by Level II System in Phase I
	ST 8.5.3	Population to be Served in Phase II(Water Supply)	Socio.xls, Chap-8.xls	M 1.3, ST 8.5.2	Projected Population / Population to be Served in Phase I (Water Supply)
	ST 8.5.4	Additional Number of Households to be Served in Phase II(Household Toilets)	Chap-8.xls	MT 8.2.1, ST 8.2.3, ST 8.3.5	Provincial Sector Targets / Number of Households Served by Sanitary Toilets in the Base Year (1994) / Projected Number of Households by Urban and Rural Area by Municipality by Target Year
	ST 8.5.5	Additional Number of Households to be Served in Phase II(Household Toilets)	Chap-8.xls	MT 8.2.1, ST 8.3.5, ST 8.5.4	Provincial Sector Targets / Projected Number of Households by Urban and Rural Area by Municipality by Target Year / Additional Number of Households to be Served in Phase II(Household Toilets)
	ST 8.5.6	Additional Number of Public School Students to be Served in Phases I and II (School Toilets)	Chap-8.xls	MT 8.2.1, ST 8.2.4, ST 8.3.6	Provincial Sector Targets / Number of Public School Students Served by School Toilets in the Base Year (1994) / Projected School Enrollment by Municipality by Target Year
	ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases I and II	Chap-8.xls	MT 8.2.1, ST 8.2.5, ST 8.3.7	Provincial Sector Targets / Number of Public Utilities with Sanitary Toilets in the Base Year (1994) / Projected Number of Public Utilities by Municipality by Target Year

Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table,
M - Questionnaire Form (Municipal Data), S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).

Table 2.6.2   Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 8	ST 8.6.1	Urban Water Supply Facilities Required by Target Year	Socio.xls	M 1.3	Projected Population
			Keypar.xls	ST 2.6.2	Key Parameter Table
			Chap-4.xls	ST 4.1.1 Sheet 1 and 3	Details on Existing Level III Systems
			Chap-8.xls	ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
				MT 8.4.1	GroundWater Productivity
				ST 8.5.2	Population to be Served in Phase I (Water Supply)
			Chap-8.xls	ST 8.5.3	Population to be Served in hase II (Water Supply)
	ST 8.6.3	Rural Water Supply Facilities Required by Target Year	Chap-7.xls	ST 7.6.2	Standard Specification of Water in the Municipality
			Chap-8.xls	ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
				MT 8.4.1	GroundWater Productivity
				ST 8.5.1	Population to be Served by Level II System in Phase I
	ST 8.6.4	Urban Household Toilets Required by Target Year	Chap-8.xls	MT 8.5.2	Additional Number of Households to be Served by Target Year(Household Toilets)
	ST 8.6.5	Rural Household Toilets Required by Target Year	Chap-8.xls	MT 8.5.2	Additional Number of Households to be Served by Target Year(Household Toilets)
	ST 8.6.6	Public School Toilets Required by Target Year	Chap-8.xls	ST 8.5.6	Additional Number of Public School Student to be Served in Phase I and Phase II (School Toilets)
	ST 8.6.7	Public Toilets Required by Target Year	Chap-8.xls	ST 8.5.7	Number of Public Utilities with Sanitary Toilets in Phases I and II
Chapter - 10	MT 10.2.1	Unit Cost of Facilities by Type and Service Level	Keypar.xls	ST 2.6.6	Unit Construction Cost of Different Facilities
	MT 10.3.1	Construction Cost of Required Facilities by Municipality	Chap-10.xls	ST 10.3.1	Construction Cost of Water Supply Facilities Required for Phase I (2000)
				ST 10.3.2	Construction Cost of Water Supply Facilities Required for Phase II (2010)
				ST 10.3.3	Cost of Sanitation Facilities Required for Phase I (2000)
				ST 10.3.4	Costs of Sanitation Facilities Required for Phase II (2010)

Note: MT - Main Report Table,   MF - Main Report Figure,   ST - Supporting Report Table,
M - Questionnaire Form (Municipal Data),   S - Questionnaire Form (System Data),   F - Questionnaire Form (Facility Data).

Table 2.6.2   Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 10	MT 10.4.1	Recurrent Cost	Keypar.xls	ST 2.6.2	Key Parameter Table
			Chap-8.xls	MT 8.2.2	Base Year Coverage in Water Supply
				MT 8.2.4	Base Year Service Coverage of Public School Toilets and Public Toilets
				ST 8.3.5	Projected Number of Households by Urban and Rural Area by Municipality by Target Year
				MT 8.5.1	Population to be Served by Target Year(Water Supply)
				ST 8.6.6	Public School Toilets Required by Target Year
				ST 8.6.7	Public Toilets Required by Target Year
			Chap-11.xls	ST 11.3.1	Percentages for Annual Investments
	ST 10.3.1	Construction Cost of Water Supply Facilities Required for Phase I (2000)	Chap-8.xls	MT 8.5.1	Population to be Served by Target Year(Water Supply)
				MT 8.6.1	Water Supply Facilities Required by Target Year
				ST 8.6.3	Number of Garbage Collection Trucks Required in Phase I
			Chap-10.xls	MT 10.2.1	Unit Cost of Facilities by Type and Service Level
	ST 10.3.2	Construction of Water Supply Facilities Required for Phase II (2010)	Keypar.xls	ST 2.6.2	Key Parameter Table
			Chap-8.xls	MT 8.5.1	Population to be Served by Target Year(Water Supply)
				ST 8.6.3	Number of Garbage Collection Trucks Required in Phase II
			Chap-10.xls	MT 10.2.1	Unit Cost of Facilities by Type and Service Level
	ST 10.3.3	Cost of Sanitation Facilities Required for Phase I (2000)	Chap-8.xls	MT 8.6.2	Sanitation Facilities Required by Target Year
				ST 8.6.7	Public Toilets Required by Target Year
			Chap-10.xls	MT 10.2.1	Unit Cost of Facilities by Type and Service Level
	ST 10.3.4	Cost of Sanitation Facilities Required for Phase II (2010)	Chap-8.xls	MT 8.3.1	Future Population by Urban and Rural Area by Municipality
				MT 8.5.5	Population to be Served by Urban Sewerage in Phase II
				MT 8.6.2	Sanitation Facilities Required by Target Year

Note: MT - Main Report Table, MF - Main Report Figure, ST - Supporting Report Table.
M - Questionnaire Form (Municipal Data), S - Questionnaire Form (System Data), F - Questionnaire Form (Facility Data).

Table 2.6.2   Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter - 10	ST 10.3.4	Cost of Sanitation Facilities Required for Phase II (2010)	Chap-8.xls	ST 8.6.6	Public School Toilets Required by Target Year
				ST 8.6.7	Public Toilets Required by Target Year
			Chap-10.xls	MT 10.2.1	Unit Cost of Facilities by Type and Service Level
Chapter - 11	MT 11.2.1	Projected Internal Revenue Allotment for Medium-Term Sector Development	Socio.xls	M 1.1	Administrative Composition
			Keypar.xls	ST 2.6.2	Key Parameter Table
			Chap-6.xls	MT 6.2.2	Past Internal Revenue Allotment to the Province from Central Government
	MT 11.2.2	Project Allotment of IRA to the Revelant Sector by Component 1996 - 2000	Chap-11.xls	MT 11.2.1	Projected Internal Revenue Allotment for Medium - Term Sector Development
	MT 11.3.1	Financing Requirements by Sector Component for the Province	Chap-10.xls	ST 10.3.2	Construction of Water Supply Facilities Required for Phase II (2010)
			Chap-11.xls	ST 11.3.1	Percentage for Annual Investments
	MT 11.3.2	Additional Fund Requirement for the Medium-Term Plan	Chap-11.xls	MT 11.3.1	Financing Requirements by Sector Component for the Province
	MT 11.3.3	Internal Revenue Allotment for Water Supply and Sanitation Sector by Municipality (Medium-Term Development /1996-2000)	Chap-10.xls	ST 10.3.1	Construction Cost of Water Supply Facilities Required for Phase I (2000)
				ST 10.3.3	Cost of Sanitation Facilities Required for Phase I (2000)
			Chap-11.xls	MT 11.2.2	Project Allotment of IRA to the Revelant Sector by Component 1996 - 2000
				MT 11.3.1	Financing Requirements by Sector Component for the Province
				MT 11.4.2	Distribution of Provincial IRA to Municipalities for Urban Water Supply
	MT 11.4.1	Municipal Investment need Ranking for Urban Water Supply	Keypar.xls	ST 2.6.7	Scoring Factor for Municipal Investment Ranking for Urban Water Supply
			Chap-8.xls	ST 8.2.2	Number of Households Served by Sanitary Toilets in the Base Year (1994)
	MT 11.4.2	Distribution of Provincial IRA to Municipalities for Urban Water Supply	Chap-11.xls	MT 8.2.2	Base Year Coverage in Water Supply
				MT 11.2.2	Project Allotment of IRA to the Revelant Sector by Component 1996 - 2000

continue to next page ...

Note: MT - Main Report Table,   MF - Main Report Figure,   ST - Supporting Report Table,
        M - Questionnaire Form (Municipal Data),   S - Questionnaire Form (System Data),   F - Questionnaire Form (Facility Data).

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Table 2.6.2 Data File Linkages

Destination Link			Source Link		
Chapter No.	Table No.	Title	Filename	Table/Form Number	Title
Chapter-11	MT 11.4.2	Distribution of Provincial IRA to Municipalities for Urban Water Supply	Chap-4.xls	MT 11.3.1	Financing Requirement by Sector Component for the Province
				MT 11.4.1	Municipal Investment need Ranking for Urban Water Supply
			Chap-10.xls	ST 10.3.1	Construction Cost of Water Supply Facilities Required for Phase I (2000)
				ST 10.3.3	Cost of Sanitation Facilities Required for Phase I (2000)
	MT 11.4.3	Municipal Investments Need Ranking	Chap-11.xls	ST 11.4.1	Comprehensive Investment need Ranking of Municipalities
	ST 11.3.1	Percentages for Annual Investments	Keyparx.xls	ST 2.6.4	Annual Distribution of Investment Cost Required by Sub-Sector for Medium-Term Development Plan
	ST 11.4.1	Comprehensive Investment need Ranking of Municipalities	Keyparx.xls	ST 2.6.8	Scoring Factor for Municipal Comprehensive Investment Ranking
			Chap-8.xls	ST 8.2.2	Population Coverage in Phase I Provided by Served Population in the Base Year (Water Supply)
				MT 8.2.3	Base Year Service Coverage of Household Toilets
			Chap-11.xls	MT 11.4.1	Municipal Investment need Ranking for Urban Water Supply

Note: MT - Main Report Table,   MF - Main Report Figure,   ST - Supporting Report Table,   S - Questionnaire Form (System Data),   F - Questionnaire Form (Facility Data).
M - Questionnaire Form (Municipal Data).

8.   UPDATING PW4SP DATA BASE

The following procedures are guide in updating the base data of the PW4SP data management system. The word *column* and *row* in this procedure mean the internal column and row notation in the worksheet environment.

8.1.   Updating Socio-economic Data Base

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *socio.xls* filename.
3.1 To update the Administrative Composition Data,
    click the tab of *(M) Area and Population* sheet.

- *NEDA geopgraphic code*: move mouse pointer to column A. Starting at the row below the column description, select the data you would like to update and type the new value.

- *Municipal Name*: move mouse pointer to column B. Starting at the row below the column description, in reference to column A (NEDA geographic code) select the data you would like to update and type the new value.

- *City*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Municipal*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Class*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Urban Barangay*: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Barangay*: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.2 To update the Past Population Data,
    click the tab of *(M) Past Population Page 1* sheet.

- *1903*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *1918*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *1939:* move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *1948:* move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *1960:* move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *1970:* move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *1975:* move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of *(M) Past Population Page 2* sheet.

- *Urban Population (1980):* move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Population (1980):* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Urban Population (1990):* move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Population (1990):* move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Urban Population (1994):* move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Population (1994):* move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.3 To update the **Population Projection Data,**
    click the tab of *(M) Project Population* sheet.

- *Urban Population (2000):* move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Population (2000):* move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Urban Population (2010)*: move mouse pointer to column S. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Population (2010)*: move mouse pointer to column U. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.4 To update the Household Data,
click the tab of *(M) Household* sheet.

- *Urban Household (1980)*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Household (1980)*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Urban Household (1990)*: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Household (1990)*: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Urban Household (1994)*: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rural Household (1994)*: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.5 To update the Services Data,
click the tab of *(M) Services* sheet.

- *Number of Public Elementary School*: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Private Elementary School*: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Public High School*: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Private High School*: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Colleges*: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Hospitals:* move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Markets:* move mouse pointer to column N. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Banks:* move mouse pointer to column O. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.6 To update the Occupation Data,
click the tab of *(M) Occupation* sheet.

- *Number of Professional, Technical and Related Workers:* move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Administrative, Executive and Managerial:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Sales Workers:* move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Service Workers:* move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Agricultural, Animal Husbandry & Forestry Workers, Fisherman and Hunetrs,* move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Production & Related Workers, Transportation Equipment Operators and Laborers:* move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Occupation Not Adequately Defined or Reported:* move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.7 To update the Family Income, Education and Literacy Data,
click the tab of *(M) Family Income and Education* sheet.

- *Number of Family Receiving Under P 13,999:* move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Family Receiving Between P 15,000 to P 29,999:* move mouse pointer to column E. Starting at the row below the column description, in reference to

column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Family Receiving Between P 30,000 to P 39,999*: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Family Receiving Between P 40,000 to P 59,999*: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Family Receiving over P 60,000*: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Population that Finish Pre-School*: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Population that Finish Elementary School*: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Population that Finish High School*: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Population that Finish College and Post Graduate*, move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Literate Population:* move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Illiterate Population:* move mouse pointer to column N. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.2. Updating Land Use Data Base

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *landuse.xls* filename.
3.1 To update the Existing Land Use Data,
   click the tab of *(M) Existing Land Use* sheet.

- *Forest Land Area:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Grass Land Area:* move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Built-up Land Area:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Agricultural Land Area:* move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Mangrove, Fishponds, In-land Area:* move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Open Land Area:* move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

3.2 To update the **Future Land Use Data**,
   click the tab of *(M) Future Land Use* sheet.

- *Forest Land Area:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Grass Land Area:* move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Built-up Land Area:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Agricultural Land Area:* move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Mangrove, Fishponds, In-land Area:* move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Open Land Area:* move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.3.   Updating Health Data Base

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *health.xls* filename.
3.1 To update the Morbidity, Mortality and Infant Mortality Data,
   click the tab of *(M) Morbidity and Mortality* sheet.

- *Number of Morbidity Case*: move mouse pointer to column E. Starting at the row below the column description, in reference to column C (name of diseases) select the data you would like to update and type the new value.

- *Number of Mortality Case*: move mouse pointer to column F. Starting at the row below the column description, in reference to column C (name of diseases) select the data you would like to update and type the new value.

- *Number of Infant Mortality Case*: move mouse pointer to column G. Starting at the row below the column description, in reference to column C (name of diseases) select the data you would like to update and type the new value.

3.2 To update the Facility and Practitioner Data
    click the tab of *(M) Facility and Practitioner* sheet.

- *Number of Hospital Facility*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Rural Health Unit (RHU)*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Barangay Health Station (BHS)*: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Practicing Doctors*: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Practicing Nurses*: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Practicing Midwives*: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Practicing Dentists*: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.4. Updating Water Resources Data Base

1. Click the File menu. select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *h2o-res.xls* filename.
3. To update the General Information Data,
   click the tab of *(M) General Information* sheet.

- *Number of Shallow (General Information)*: move mouse pointer to column E/H. Starting at the row below the column description, in reference to column C (description of information) select the data you would like to update and type the new value.

- *Number of Deep Well (General Iinformation):* move mouse pointer to column F/I. Starting at the row below the column description, in reference to column C (description of information) select the data you would like to update and type the new value.

- *Number of spring (General Information):* move mouse pointer to column G/I. Starting at the row below the column description, in reference to column C (description of information) select the data you would like to update and type the new value.

Note: To add succeeding municipality. Copy *(M) General Information* sheet and erase the default data and type the new data following the aforementioned procedures.

8.5. Updating Water Supply Data Base

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *h2osupp.xls* filename.
3.1 To update the Level III System Data,
   click the tab of *(S) Level III P1-4* sheet.

- *Data:* move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

click the tab of *(S) Level III P2-4* sheet.

- *Data:* move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

click the tab of *(S) Level III P3-4* sheet.

- *Data:* move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

click the tab of *(S) Level III P4-4* sheet.

- *Data:* move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

3.2 To update the Level II System Data,
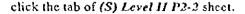   click the tab of *(S) Level II P1-2* sheet.

- *Data:* move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

click the tab of *(S) Level II P2-2* sheet.

- *Data:* move mouse pointer to column G.Starting at the row below the column description, in reference to column B (Info Description) select the data you would like to update and type the new data.

3.3 To update the Level I Facility Data,
click the tab of *(F) Level I* sheet.

Public Facility:

- *Deep Well:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Shallow Well:* move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Covered/Improved Dug Well:* move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Open Dug Well:* move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Developed Spring:* move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Undeveloped Spring:* move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

Private Facility:

- *Deep Well:* move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Shallow Well:* move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Covered/Improved Dug Well:* move mouse pointer to column N. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Open Dug Well:* move mouse pointer to column O. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Rain Collector*: move mouse pointer to column P. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.6. Updating Environmental Sanitation Data base

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *sanit.xls* filename.
3.1 To update the Household Toilet Data,
   click the tab of *(M) Household Toilets* sheet.

- *Number of Urban Households Using Water Sealed Flush Toilet*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Rural Households Using Water Sealed Flush Toilet*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Urban Households Using Water Sealed Pour Flush Toilet*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Rural Households Using Water Sealed Pour Flush Toilet*: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Urban Households Using VIP Latrine Toilet*: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Rural Households Using VIP Latrine Toilet*: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Urban Households Using Unsanitary Toilet*: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Rural Households Using Unsanitary Toilet*: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Urban Households Without Toilet*: move mouse pointer to column N. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Rural Households Without Toilet*: move mouse pointer to column O. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of *(M) School Toilets* sheet.

- *Number of Public School*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Private School*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Student in Public School*: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Student in Private School*: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Sanitary Toilets in Public School*: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Sanitary Toilets in Private School*: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Unsanitary Toilets in Public School*: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Unsanitary Toilets in Private School*: move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of *(M) Public Toilets* sheet.

- *Number of Public Markets*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Sanitary Toilets in Public Markets*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Unsanitary Toilets in Public Markets*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Jeepney/Bus Terminals*: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Sanitary Toilets in Jeepney/Bus Terminal*: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Unsanitary Toilets in Jeepney/Bus Terminal*: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Parks/Playground*: move mouse pointer to column K. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Sanitary Toilets in Parks/Playground*: move mouse pointer to column L. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Unsanitary Toilets in Parks/Playground*: move mouse pointer to column M. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of *(M) Drainage Facility* sheet.

- *Length of Drainage Main*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Length of Open Channel (with concrete and masonry)*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Length of Open Ditches And Unlined Laterals*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Length of Reinforced Concrete Circular Pipes*: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Length of Street Gutters*: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Length of Outfalls To Rivers From Drainage Mains*: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

click the tab of *(M) Solid Waste* sheet.

- *Number of Open Dump Trucks*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Closed Type Trucks*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Households Served By Open Dump Site*: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Households Served By Sanitary Landfill*: move mouse pointer to column G. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Households Depending on Dumping on Land or Water*: move mouse pointer to column H. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Households Depending on Burying*: move mouse pointer to column I. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

- *Number of Households Depending on Composting*: move mouse pointer to column J. Starting at the row below the column description, in reference to column B (name of municipality) select the data you would like to update and type the new value.

8.7. Updating Investment Data Base

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *invest.xls* filename.
3.1 To update the Past Investment Data,
   click the tab of *(P) Past Invest* sheet.

- *Shallow Well:* move mouse pointer to column C. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Deep Well:* move mouse pointer to column D. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Spring Development:* move mouse pointer to column E. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Well Rehabilitation:* move mouse pointer to column F. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Rain Collector:* move mouse pointer to column G. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Level II System:* move mouse pointer to column H. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Level III System:* move mouse pointer to column I. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Sewer System:* move mouse pointer to column J. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Private Latrines:* move mouse pointer to column K. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *School Toilets:* move mouse pointer to column L. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

- *Public Toilets:* move mouse pointer to column M. Starting at the row below the column description, in reference to column A (name of funding agency) select the data you would like to update and type the new value.

3.2 To update the Planned Future Investment Data
click the tab of *(P) Future Invest* sheet.

- *Project Name:* move mouse pointer to column A. Starting at the row below the column description, type the project identification.

- *Type of Project:* move mouse pointer to column B. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Phase of Project:* move mouse pointer to column C. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Project Location:* move mouse pointer to column D. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Implementing Agency:* move mouse pointer to column E. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Start Date of Project:* move mouse pointer to column F. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Completion Date of the Project:* move mouse pointer to column G. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Accomplishment Status (%):* move mouse pointer to column H. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Number of Household Covered by the Project:* move mouse pointer to column I. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Finance Agency:* move mouse pointer to column J. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Cost of Level I Facility (Thousand of pesos):* move mouse pointer to column K. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Cost of Level II System (Thousand of pesos):* move mouse pointer to column L. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Cost of Level III System (Thousand of pesos):* move mouse pointer to column M. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Cost of Sewer System (Thousand of pesos):* move mouse pointer to column N. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Private Latrine (Thousand of pesos):* move mouse pointer to column O. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Cost School Toilets (Thousand of pesos):* move mouse pointer to column P. Starting at the row below the column description, in reference to column A (name of project) type the new value.

- *Cost of Public Toilets (Thousand of pesos):* move mouse pointer to column Q. Starting at the row below the column description, in reference to column A (name of project) type the new value.

8.8.   Updating Key Parameter Data Base

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *keypar.xls* filename.
3. To update the Key Parameter Data,
   click the tab of *STable 2.6.2* sheet.

Water Supply:

- *Number of Household to be Served by Level I Facility:* move mouse pointer to column H-Row 5. Type the new value.

- *Water Consumption Rate for Level III System:* move mouse pointer to column H-Row 6. Type the new value.

Sanitation:

- *Standard Number of Student to be Served by a Unit of Sanitary Toilet:* move mouse pointer to column H-Row 8. Type the new value.

- *Standard Number of Toilets for Public Facility:* move mouse pointer to column H-Row 9. Type the new value.

Medium-term Plan:

- *Percentage of Population Covered by Urban Water Supply:* move mouse pointer to column H-Row 11. Type the new value.

- *Percentage of Population Covered by Rural Water Supply:* move mouse pointer to column H-Row 12. Type the new value.

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- *Percentage of Population Covered by Sanitary Toilet:* move mouse pointer to column H-Row 14. Type the new value.

- *Percentage of Urban Household Covered by Flush Toilet:* move mouse pointer to column H-Row 16. Type the new value.

- *Percentage of Urban Household Covered by Pour Flush Toilet:* move mouse pointer to column H-Row 17. Type the new value.

- *Percentage of Urban Household Covered by VIP Latrine:* move mouse pointer to column H-Row 18. Type the new value.

- *Percentage of Rural Household Covered by Flush Toilet:* move mouse pointer to column H-Row 20. Type the new value.

- *Percentage of Rural Household Covered by Pour Flush Toilet:* move mouse pointer to column H-Row 21. Type the new value.

- *Percentage of Rural Household Covered by VIP Latrine:* move mouse pointer to column H-Row 22. Type the new value.

- *Percentage of Public Student Covered by School Toilet:* move mouse pointer to column H-Row 23. Type the new value.

- *Percentage of Public Utility Covered by Public Toilet:* move mouse pointer to column H-Row 24. Type the new value.

- *Percentage of Population Covered by Solid Waste Collection:* move mouse pointer to column H-Row 25. Type the new value.

Long-term Plan:
- *Percentage of Population Covered by Urban Water Supply:* move mouse pointer to column H-Row 27. Type the new value.

- *Percentage of Population Covered by Rural Water Supply:* move mouse pointer to column H-Row 28. Type the new value.

- *Percentage of Population Covered by Sanitary Toilet:* move mouse pointer to column H-Row 30. Type the new value.

- *Percentage of Urban Household Covered by Flush Toilet:* move mouse pointer to column H-Row 32. Type the new value.

- *Percentage of Urban Household Covered by Pour Flush Toilet:* move mouse pointer to column H-Row 33. Type the new value.

- *Percentage of Urban Household Covered by VIP Latrine:* move mouse pointer to column H-Row 34. Type the new value.

- *Percentage of Rural Household Covered by Flush Toilet:* move mouse pointer to column H-Row 36. Type the new value.

- *Percentage of Rural Household Covered by Pour Flush Toilet:* move mouse pointer to column H-Row 37. Type the new value.

- *Percentage of Rural Household Covered by VIP Latrine:* move mouse pointer to column H-Row 38. Type the new value.

- *Percentage of Public Student Covered by School Toilet:* move mouse pointer to column H-Row 39. Type the new value.

- *Percentage of Public Utility Covered by Public Toilet:* move mouse pointer to column H-Row 40. Type the new value.

- *Percentage of Population Covered by Urban Sewerage:* move mouse pointer to column H-Row 41. Type the new value.

Rehabilitation:

- *Percentage of Level I Wells for Rehabilitation:* move mouse pointer to column H-Row 42. Type the new value.

Sector Management Cost:

- *Percentage of Feasibility and Detail Design:* move mouse pointer to column H-Row 44. Type the new value.

- *Percentage of Construction Supervision:* move mouse pointer to column H-Row 45. Type the new value.

Contingencies:

- *Percentage of Physical Contingency:* move mouse pointer to column H-Row 47. Type the new value.

- *Percentage of Price Contingency:* move mouse pointer to column H-Row 48. Type the new value.

Community Development and Training Cost:

- *Percentage for Level III System:* move mouse pointer to column H-Row 50. Type the new value.

- *Percentage for Level I Facility and Level II System:* move mouse pointer to column H-Row 51. Type the new value.

Recurrent Cost:

- *Operating Cost for Level III System:* move mouse pointer to column H-Row 52. Type the new value.

- *Cost of Spare Parts/Equipment for Level III System:* move mouse pointer to column H-Row 53. Type the new value.

- *Cost of Spare Parts/Equipment for Level II System:* move mouse pointer to column H-Row 54. Type the new value.

- *Cost of Spare Parts/Equipment for Level I Facility:* move mouse pointer to column H-Row 55. Type the new value.

- *Public School Toilet Maintenance Cost:* move mouse pointer to column H-Row 56. Type the new value.

- *Public Utility Toilet Maintenance Cost:* move mouse pointer to column H-Row 57. Type the new value.

Allocation Factors/Percentages of IRA:

- *Percentage Share from Provincial IRA:* move mouse pointer to column H-Row 59. Type the new value.

- *Percentage Share from Municipal/Barangay IRA:* move mouse pointer to column H-Row 60. Type the new value.

Funding Levels/Percentages for Different Financing Scenarios:

- *1st Scenario:* move mouse pointer to column H-Row 62. Type the new value.

- *2nd Scenario:* move mouse pointer to column H-Row 63. Type the new value.

- *3rd Scenario:* move mouse pointer to column H-Row 64. Type the new value.

- *4th Scenario:* move mouse pointer to column H-Row 65. Type the new value.

- *5th Scenario:* move mouse pointer to column H-Row 66. Type the new value.

click the tab of *STable 2.6.3* sheet:

- *Percentage Proportion of Water Source:* move mouse pointer to column D. Starting at the row below the column description, in reference to column A (name of municipality), column B (type of area), column C (type of source) select the data you would like to update and type the new value.

- *Range Depth of Well:* move mouse pointer to column E. Starting at the row below the column description, in reference to column A (name of municipality), column B (type of area), column C (type of source) select the data you would like to update and type the new value.

- *Average Specific Capacity:* move mouse pointer to column F. Starting at the row below the column description, in reference to column A (name of municipality), column B (type of area), column C (type of source) select the data you would like to update and type the new value.

click the tab of *STable 2.6.5* sheet.

- *Unsafe Percentage:* move mouse pointer to column C. Starting at the row below the column description, in reference to column A (name of municipality) select the data you would like to update and type the new value.

click the tab of *STable 2.6.6* sheet.

- *Unit Construction Cost for New Level III System for 5,000 population:* move mouse pointer to column B-Row 7. Type the new value.

- *Unit Construction Cost for New Level III System for 10,000 population:* move mouse pointer to column B-Row 8. Type the new value.

- *Unit Construction Cost for New Level III System for 15,000 population:* move mouse pointer to column B-Row 9. Type the new value.

- *Unit Construction Cost for Level III System Expansion for 5,000 population:* move mouse pointer to column B-Row 11. Type the new value.

- *Unit Construction Cost for Level III System Expansion for 10,000 population:* move mouse pointer to column B-Row 12. Type the new value.

- *Unit Construction Cost for Level III System Expansion for 15,000 population:* move mouse pointer to column B-Row 13. Type the new value.

- *Unit Construction Cost for Level II System:* move mouse pointer to column B-Row 14. Type the new value.

- *Unit Construction Cost for Level I Facility (Deep Well - 40 meter depth):* move mouse pointer to column B-Row 16. Type the new value.

- *Unit Construction Cost for Level I Facility (Deep Well - 80 meter depth):* move mouse pointer to column B-Row 17. Type the new value.

- *Unit Construction Cost for Level I Facility (Deep Well - 120 meter depth):* move mouse pointer to column B-Row 18. Type the new value.

- *Unit Construction Cost for Level I Facility (Shallow Well):* move mouse pointer to column B-Row 19. Type the new value.

- *Unit Construction Cost for Rehabilitation of Level I Facility:* move mouse pointer to column B-Row 20. Type the new value.

- *Cost for Disinfection of Level I Wells:* move mouse pointer to column B-Row 21. Type the new value.

- *Unit Construction Cost for Flush Toilet:* move mouse pointer to column B-Row 22. Type the new value.

- *Unit Construction Cost for Pour Flush Toilet:* move mouse pointer to column B-Row 23. Type the new value.

- *Unit Construction Cost for VIP Latrine Toilet:* move mouse pointer to column B-Row 24. Type the new value.

- *Unit Construction Cost for School Toilet:* move mouse pointer to column B-Row 25. Type the new value.

- *Unit Construction Cost for Public Toilet:* move mouse pointer to column B-Row 26. Type the new value.

- *Unit Construction Cost for Urban Sewerage:* move mouse pointer to column B-Row 27. Type the new value.

click the tab of *STable 2.6.4* sheet.

Urban Water Supply (Level III System):

- *Feasibility Study and Detail Design:* move mouse pointer to Row 6. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Construction and Supervision:* move mouse pointer to Row 7. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Community Development and Training:* move mouse pointer to Row 8. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

Rural Water Supply (Level I Facility):

- *Detail Design:* move mouse pointer to Row 10. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Construction and Supervision:* move mouse pointer to Row 11. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Community Development and Training:* move mouse pointer to Row 12. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

Rural Water Supply (Level II System):

- *Detail Design:* move mouse pointer to Row 14. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Construction and Supervision:* move mouse pointer to Row 15. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Community Development and Training:* move mouse pointer to Row 16. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

Sanitation:

- *Urban Household Toilet:* move mouse pointer to Row 17. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Rural Household Toilet:* move mouse pointer to Row 18. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Public School Toilet:* move mouse pointer to Row 19. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Public Toilet:* move mouse pointer to Row 20. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Disinfection of Level I Wells:* move mouse pointer to Row 21. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Detail Design:* move mouse pointer to Row 22. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Construction and Supervision:* move mouse pointer to Row 23. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

- *Community Development and Training:* move mouse pointer to Row 24. Starting at Column F (Year 1996) up to Column J (Year 2000) select the data you would like to update and type the new value.

click the tab of *STable 2.6.7 & 2.6.8* sheet.

Scoring Factor for Municipal Investment Ranking for Urban Water Supply:

- *Minimun Percentage of Underserved and Unserved Population in Base Year:* move mouse pointer to column B, in reference to column A (score) select the data you would like to update and type the new value.

- *Maximum Percentage of Underserved and Unserved Population in Base Year:* move mouse pointer to column D, in reference to column A (score) select the data you would like to update and type the new value.

- *Weight Allocation Score for Underserved and Unserved Population in Base Year:* move mouse pointer to column C-Row 9. Type the new value.

- *Minimun Percentage of Underserved and Unserved Population in Phase I:* move mouse pointer to column E, in reference to column A (score) select the data you would like to update and type the new value.

- *Maximu Percentage of Underserved and Unserved Population in Phase I:* move mouse pointer to column G, in reference to column A (score) select the data you would like to update and type the new value.

- *Weight allocation Score for Underserved and Unserved Population in Phase I:* move mouse pointer to column F-Row 9. Type the new value.

- *Minimun Percentage of Underserved and Unserved by Level III System in the Base Year:* move mouse pointer to column H, in reference to column A (score) select the data you would like to update and type the new value.

- *Maximum Percentage of of Underserved and Unserved by Level III System in the Base Year:* move mouse pointer to column J, in reference to column A (score) select the data you would like to update and type the new value.

- *Weight Allocation Score for Underserved and Unserved by Level III System in the Base Year:* move mouse pointer to column I-Row 9. Type the new value.

Scoring Factor for Municipal Comprehensive Investment Ranking:

- *Minimun Percentage of Rural Water Supply:* move mouse pointer to column E, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.

- *Maximum Percentage of Rural Water Supply:* move mouse pointer to column G, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.

- *Weight Allocation Score for Rural Water Supply:* move mouse pointer to column F-Row 20. Type the new value.

- *Minimun Percentage of Urban Sanitation:* move mouse pointer to column H, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.

- *Maximum Percentage of Urban Sanitation:* move mouse pointer to column J, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.

- *Weight Allocation Score for Urban Sanitation:* move mouse pointer to column I-Row 20. Type the new value.

- *Minimum Percentage of Rural Sanitation:* move mouse pointer to column K, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.

- *Maximum Percentage of Rural Sanitation:* move mouse pointer to column M, in reference to column A (score) at starting at row 15, select the data you would like to update and type the new value.

- *Weight Allocation Score for Rural Sanitation:* move mouse pointer to column L-Row 20. Type the new value.

8.9. Updating Unit Construction Cost Data Base

8.9.1. Water Supply

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *chap-10.xls* filename.
3.1. To update the Unit Cost for Level III (5,000 population),
   click the tab of *STable 10.2.7* sheet.

- *Quantity:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.2. To update the Unit Cost for Level III (10,000 population),

   click the tab of *STable 10.2.8* sheet.

- *Quantity:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.3. To update the Unit Cost for Level III (15,000 population),
   click the tab of *STable 10.2.9* sheet.

- *Quantity:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.4. To update the **Unit Cost for Level II (600 population)**,
   click the tab of *STable 10.2.6* sheet.

- *Lump Cost of Spring Box*: move mouse pointer to column G-Row-4. Type the new value.

- *Quantity of Installation of Pipelines and Fittings*: move mouse pointer to column D. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost of Installation of Pipelines and Fittings*: move mouse pointer to column F. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.5. To update the **Unit Cost for Level I (Deep Well - 40 m depth)**,
   click the tab of *STable 10.2.1* sheet.

- *Lump Sum Cost of Mobilization/Demobilization*: move mouse pointer to column F-Row-4. Type the new value.

- *Quantity*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.6. To update the **Unit Cost for Level I (Deep Well - 80 m depth)**,
   click the tab of *STable 10.2.2* sheet.

- *Lump Sum Cost of Mobilization/Demobilization*: move mouse pointer to column F-Row-4. Type the new value.

- *Quantity*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.7. To update the **Unit Cost for Level I (Deep Well - 120 m depth)**,
   click the tab of *STable 10.2.3* sheet.

- *Lump Sum Cost of Mobilization/Demobilization*: move mouse pointer to column F-Row-4. Type the new value.

- *Quantity*: move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.8. To update the Unit Cost for Level I (Deep Well Rehabilitation),
   click the tab of *STable 10.2.4* sheet.

- *Lump Sum Cost of Mobilization/Demobilization:* move mouse pointer to column F-Row-4. Type the new value.

- *Quantity:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.9. To update the Unit Cost for Level I (Shallow Well - 18 m depth),
   click the tab of *STable 10.2.5* sheet.

- *Lump Sum Cost of Mobilization/Demobilization:* move mouse pointer to column F-Row-4. Type the new value.

- *Quantity:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

8.9.2. Environmental Sanitation

1. Click the File menu, select Open.
   Short-cut: Click the Open button.
2. From the Open Dialog Box. Select the *chap-10.xls* filename.
3.1. To update the Unit Cost of Flush Water Sealed Toilet with Septic
   click the tab of *STable 10.2.10* sheet.

- *Quantity:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost:* move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.2. To update the Unit Cost of Pour Flush Toilet with Double Pit Latrine
   click the tab of *STable 10.2.11* sheet.

- *Quantity:* move mouse pointer to column C. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

- *Unit Cost*: move mouse pointer to column E. Starting at the row below the column description, in reference to column B (item description) select the data you would like to update and type the new value.

3.3.To update the Unit Cost of Ventilated Improved Pit Latrine (VIP)
click the tab of *STable 10.2.12* sheet.

- *Quantity:* move mouse pointer to column D. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.

- *Unit Cost*: move mouse pointer to column H. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.

3.4.To update the Unit Cost of School Toilet
click the tab of *STable 10.2.13* sheet.

- *Quantity:* move mouse pointer to column D. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.

- *Unit Cost*: move mouse pointer to column H. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.

3.5.To update the Unit Cost of Public Toilet
click the tab of *STable 10.2.14* sheet.

- *Quantity:* move mouse pointer to column D. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value.

- *Unit Cost*: move mouse pointer to column H. Starting at the row below the column description, in reference to column C (item description) select the data you would like to update and type the new value

9.   Standard Report Format

The following page describes the standard report format. Please refer to MS-Word Basic Operation in Section 5 for procedure in setting the MS-Word environment.

Specification for Standard Report Format

Edge of paper. — Title of section

4. EXISTING FACILITIES AND SERVICE COVERAGE

4.1. Water Supply — Sub-section

Text box

4.2. General

All around margin - 1"

This is an example output of the main text.

Spacing between paragrpah - 1 blank line.

Type and composition of water supply facilities are classified into three service levels based on the definition given in the National Sector Master Plan and presented in Table 4.1.1. Various types of Level I Facilities/sources defined to safe and unsafe sources by DOH. This classification adopted for preparation of PW4SP does not disregard the facts that the existing improved/covered dug well is sometimes yielding non-potable water.

1st indent - 0.5"

(1) Problem areas

2nd indent - 0.25"

Problem areas are identified through review of the exsiting water supply facilities and countermeasures and recommendations for their improvement are prepared to reflect on the future planning in PW4SP.

1) Level I facilities

Comments on each sub-title shall be followed in the manner as shown herewith.

Line spacing - 1.5 line.

a. Driven shallow wells

Most of driven shallow wells are exposed to danger of pollution through seepage of surface water.

3rd indent - 0.25"
4th indent - 0.25"

Standard settings;

Standard Font - New Roman Times.
Font Size   - 11 points.
Paragraph   - Justified alignment.
Title of Section - Bold Font, All Upper Case.
Sub-Section   - Bold Font, First Letter Upper Case.

All around margin - 1"

3.3 Socio-economic Conditions
3.3.2 Basic Infrastructure

Table 3.3.1 Number of Elementary School, High School and Other Served Facilities

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)		Page:
Content: Socio-economic - Services		Date: 21 Jul. 1998
Data Collection Level: Provincial	Prov. Number: 1367	Filename: Socio.xls
Region Number: CARAGA	Prov. Name: Surigao del Norte	Form No.: P.1.5

Geographic Code Number	Name of City or Municipality (Character)	Elementary School Public	Elementary School Private	Elementary School Total	High School Public	High School Private	High School Total	Vocational Schools	Colleges and Universities	Hospitals	Banks and Financing Institutions
136701	Alegria	9		9	1	1	2				1
136702	Bacuag	13		13	1	1	2				
136703	Basilisa (Rizal)	23		23	4		4				
136704	Burgos	8		8	1		1				
136705	Cagdianao	17		17	2		2				
136706	Claver	14		14	1		1			1	1
136707	Dapa	21		21	2	1	3		2	1	
136708	Del Carmen	25		25	2		2		1	1	
136709	Dinagat	10		10	1		1				
136710	General Luna	15		15	1		1			1	1
136711	Gigaquit	10		10	1	1	2				
136713	Libjo (Albor)	15		15	1		1			1	
136713	Loreto	9		9	1	1	2		1	1	1
136714	Mainit	21		21	3	1	4			1	
136715	Malimono	15		15	4		4	1		1	
136716	Pilar	11		11	2		3	1			
136717	Placer	18		18	1		1		1	1	1
136718	San Benito	13		13	2	1	3	1			
136719	San Francisco (Anao-Aon)	12		12	1		1				
136720	San Isidro	11		11	2		3				
136728	San Jose	12		12	1		2	1	1	1	
136721	Santa Monica (Sapao)	7		7	1		1		1		
136722	Sison	12		12	1		1				
136723	Socorro	15		15	1		1		1	1	
136724	Surigao City (Capital)	64		64	7	4	11	4	6	4	11
136725	Tagana-An	12		12	1		1				
136726	Tubajon	10		10	2		2				
136727	Tubod	7		7	1	1	2				

Source:

3.5 Health Status
3.5.1 Morbidity, Mortality and Infant Mortality

Table 3.5.1 Morbidity, Mortality and Infant Mortality by Municipality (Annual Incidence per 100,000 persons)

Provincial Water Supply, Sewerage and Sanitation Sector Plan (PW4SP)				Prov. Number. 1367					Page:		
Content: Health - Morbidity and Mortality				Prov. Name: Surigao del Norte					Date: 21 Jul. 1998		
Data Collection Level: Provincial				Municipal Number					Filename: Health.xls		
Region Number: CARAGA				Municipal Name					Form Number: P 3 1		

Cause Group Diseases of	Disease No.	Name of Diseases (Group)	Water Related Diseases	Annual Incidence per 100,000 People								
				Morbidity			Mortality			Infant Mortality		
				Male	Female	Total	Male	Female	Total	Male	Female	Total
Infective	A 01	2-4/ Typhoid-Parathyphoid	X	36	28	64		1	1			
and	A 02	5-7/ Dysentery	X									
Parasitic	A 03	8-10/ Intestinal Parasites	X									
(001-136)	A 04	11-13/ Diarrhea	X	1,402	1,438	2,840	8	8	16		1	1
	A 05	14-16/ Tuberculosis		198	179	377	198	59	257			
	A 06	17-19/ Conjunctivitis	X									
	A 07	20-22/ Whooping Cough		540	885	1,425						
	A 08	23-25/ Throat/Ear/Nose										
	A 09	26-28/ Tetanus		2,333	359	2,692	1		1		1	1
	A 10	29-31/ Septicemia					10	17	27		1	1
	A 11	32-34/ Cholera	X	87	80	167						
	A 12	35-37/ Varicella, Chickenpox		28	33	61						
	A 13	38-40/ Measles		121	138	259						
	A 14	41-43/ Dengue Fever	X	8	14	22						
	A 15	44-46/ Viral Hepatitis	X	33	10	43	2	1	3			
	A 16	47-49/ Malaria	X	12		12	1		1			
	A 17	50-52/ Schistosomiasis	X	54	39	93	8	3	11			
	A 18	53-55/ Filariasis	X	84	75	159						
	A 19	56-58/ Venerial Diseases		10	28	38						
	A 20	59-61/ Other Bacter./ Viral Dis										
Neoplasms	B 01	62-64/ Malignant Neoplasms		8	4	12	25	22	47			
(140-239)	B 02	65-67/ Leukemia					1	1	2			
Endocrine, Nutritional	C 01	68-70/ Diabetes Mellitus		7	6	13	11	4	15			
& Metabolic	C 02	71-73/ Nutritional Deficiencies					2	5	7	2		2
(250-279)	C 03	74-76/ Endocrine Disorder										
Blood & Blood Forming Organs (280-289)	D 01	77-79/ Anemias		80	236	316						
Mental Disorder (290-319)	E 01											
Nervous System & Sense Organs (320-389)	F 01	80-82/ Meningitis		3	2	5	4	5	9	1		1
	F 02	83-85/ Nervous System										
Circulatory	G 01	86-88/ Heart Diseases		84	104	188	7	5	12	2	2	4
Systems (390-459)	G 02	89-91/ Vascular Diseases					31	29	60			
	H 01	92-94/ Bronchitis		1,307	1,181	2,488	2	1	3			
Respiratory	H 02	95-97/ Pneumonia		1,526	1,483	3,009	64	54	118	10	3	13
Systems	H 03	98-100/ Influenza		2,585	2,672	5,257		1	1			
(460-519)	H 04	101-103/ Obstructive Pulmonary					1	2	3			
	H 05	104-106/ ARI		569	664	1,233						
Digestive	I 01	107-109/ Appendicitis						1	1			
System	I 02	110-112/ Gastroent. Colitis								2	3	5
(520-579)	I 03	113-115/ Chronic Liver Disease					19	3	22			
	I 04	116-118/ Other Diges. Diseases					10	4	14			
Genito-Urinary	J 01	119-121/ Kidney/ Nephritis					13	19	32			
System (580-629)	J 02	122-124/ Urinary Infections		269	271	540	7	4	11			
Complication of Pregnancy & the Puerperium (630-676)	K 01	125-127/ Prematurity					5	4	9	4	4	8
Skin & Subcutaneous	L 01	128-130/ Skin Diseases	X	36	37	73						
Tissue (680-709)	L 02	131-133/ Scabies	X									
Musculoskeletal & Connective Tissue (710-739)	M 01	134-136/ Arthrop., Rheumatism		7	12	19						
Congenital Anomalies (740-759)	N 01	137-139/ Congenital Anomalies					8	2	10			
	P 01	140-142/ Birth Trauma					1	1	2			
Certain Causes of Prenatal	P 02	143-145/ Birth Injuries & Difficult Labor						7	7			
Morbidity & Mortality	P 03	146-148/ Resp. Fetus/Newborn					1		1			
(760-779)	P 04	159-151/ Other Prenatal Causes					17	30	47			
Symptoms & Illdefined Condition	Q 01	152-154/ Senility										
(780-799)	Q 02	155-157/ Ill-Defined Condition										
Accidents, Poisoning	R 01	158-160/ Burns										
& Violence	R 02	161-163/ Suffoc. Foreign Body					6	1	7			
(800-999)	R 03	164-166/ Other Accidents					78	13	91			

3 - 2

3.6 Environmental Conditions

3.6.3 Solid Waste Disposal

Table 3.6.1 Municipal Solid Waste Collection and Disposal by Municipality

Geographic Code	Name of City or Municipality	With Municipal Service					Without Service		
		Number of Collection Trucks			Disposal		Number of Household by Manner of Disposal		
Number	Character	Open Dump Trucks (Number)	Closed Type Trucks (Number)	Total Units (Number)	Number of Households Served by Open Dump Site (Number)	Number of Household Served by Sanitary Landfill (Number)	Dumping (Land and Water) (Number)	Burying (Number)	Composting (Number)
136701	Alegria						1,466	408	285
136702	Bacuag	1		1	943		1,026	190	66
136703	Basilisa (Rizal)					1,566	960	995	1,126
136704	Burgos						290	88	204
136705	Cagdianao			1	1,137		145	374	619
136706	Claver	1		1	691	691	1,560	950	1,589
136707	Dapa				20		793	350	362
136708	Del Carmen						1,742	225	396
136709	Dinagat						1,108	1,230	250
136710	General Luna	2		2	729	81	185	587	370
136711	Gigaquit						1,966		
136713	Libjo (Albor)	1		1		510	2,411		230
136713	Loreto				611		1,182	358	1,195
136714	Mainit				170		1,839	550	1,598
136715	Malimono				120		258	720	159
136716	Pilar	1		1			1,275	108	2,146
136717	Placer	1		1	883		1,032	173	100
136718	San Benito	1		1			580		166
136719	San Francisco (Anao-Aon)				1,018		853		1,049
136720	San Isidro	1		1	1,817		1,705	664	664
136728	San Jose	1		1	654	653			
136721	Santa Monica (Sapa	1		1	560				357
136722	Sison						1,148	548	
136723	Socorro			15	20,499		1,822		
136724	Surigao City (Capit	3	12	15			381		320
136725	Tagana-An						1,608	491	634
136726	Tubajon				338		297	20	2,017
136727	Tubod								

Source of data and date:

4.   EXISTING FACILITIES AND SERVICE COVERAGE

4.1   Water Supply

4.2   Type of Facilities and Definition of Service Level Standard

NEDA Board Resolution

No. 12 (s. 1995)

APPROVING THE COMMON
DEFINITION OF TERMS RELATIVE TO WATER
SUPPLY, SEWERAGE AND SANITATION

DEFINITION OF TERMS

Water Supply

Levels of Service

Three levels of water service shall be provided to urban and rural communities depending upon technical and financial considerations, the needs of the WDs and RWSAs, and their willingness and ability to share in the costs and the responsibility of constructing and maintaining the water systems, These are:

1.   Level I (point source) - a protected well or a developed spring with an outlet but without a distribution system, generally adaptable for rural areas where the houses are thinly scattered. A Level I facility normally serves an average of 15 households.

2.   Level II (communal faucet system or standposts) -- a system composed of a source, a reservoir, a piped distribution network, and communal faucets. Usually one faucet serves 4 to 6 households. Generally suitable for rural and urban fringe areas where houses are clustered densely to justify a simple piped system.

3.   Level III (waterworks system or individual house connections) -- a system with a source, a reservoir, a piped distribution network and household taps. It is generally suited for densely populated urban areas.

Urban – the revised definition of urban population included the criteria on the economic and social functions of barrios, poblaciones and central districts resulting to the new definition which states:

1. In their entirely, all municipal jurisdictions which, whether designated as chartered cities, provincial capital or not, have a population density of at least 1,000 persons per square kilometers.

2. Poblaciones or central districts of municipalities and cities which have a population density of at least 500 persons per square kilometer.

3. Poblaciones or central districts (not included in nos. 1 and 2) regardless of population size which have the following:

   a. Street pattern, i.e., network of streets in either at parallel or right angle orientation;

   b. At least six establishments (commercial, manufacturing, recreational and/or personal services); and

   c. At least three of the following:
      i) a town hall, church or chapel with religious services at least once a month;
      ii) a public plaza, park or cemetery;
      iii) a market place or building on at least once a week and
      iv) a public building like school, hospital, puericulture and health center or library.

4. Barrios having at least 1,000 inhabitants which meet the conditions setforth in no. 3 above, and in which the occupation of the inhabitants is predominantly non-farming/fishing.

Rural – all areas not falling under the urban classification (National Statistics Office).

Rural Waterworks and Sanitation Association (RWSAs) – non-stock, non-profit organizations envisioned to operate and mange Level II water supply facilities.

Barangay Waterworks and Sanitation Association (BWSA) – non-stock, non-profit organizations envisioned to operate and manage Level I water supply facilities.

Water Supply – for purpose of the plan, refers to the supply of the water for domestic, municipal, industrial/commercial uses.

Water Supply Coverage – refers to the number of people in a given community of geographical area who have access to safe water. The extent to which the population of a geographical area is covered (expressed in terms of the number of people served compared to the total population of that community or area).

Adequate Served – refers to those with the following rate or consumption:

Level I   at least 20 liters/capita/day
Level II   at least 60 liters/capita/day
Level III   at least 100 liters/capita/day

Service Coverage – the no. of people a facility can serve.

Level I Water Supply Systems

1. Deepwell – are characterized by aquifers or water bearing formations generally located at a depth of more than 20 (mbgs.). Construction of deepwells with depths greater than 20 meters are recommended in these areas.

2. Shallow Well -- are areas suitable for construction of well with depths not more than 20 meters and are recommended for rural water supply development, particularly levels I and II services. Static water level in these areas are generally within 6 meters below ground surface.

3. Developed Springs – developed to capture the natural flow of an aquifer, pollution generally originates close to the point of capture. It is projected by: 1) excluding shallow seepage waters through encircling the spring with a watertight chamber penetrating a safe-distance into the aquifer and; 2) diverting surface run-off away from the immediate vicinity.

4. Protected Dug Wells – WASAMS defines protected dug wells as those which are adequately protected (guarded) against surface or outside contamination through the use of lining or covering, with a rim sufficiently raised above the ground level, and may be equipped with a pump (any type).

Salt Intrusion – encroachment of salt water upon fresh water.

Potable Water – water that is satisfactory for drinking, culinary and domestic purposes and meets the requirements of the health authority having jurisdiction. (Plumbing Code).

Population Underserved – population inadequately served.

Population Unserved – population without access to water supply facility.

Population Served – no. of population adequately served of connections x no. of persons served per connection.

Rainwater Cisterns/Collectors/Catchers – reservoirs, tanks or vessels for the storage of rainwater.

Reliable Water Supply – efficiency in the delivery of water supply in terms of quantity and quality.

Safe Drinking Water – water must be free of disease-producing bacteria (pathogens). In addition, the water should not possess undesirable tastes, odors, colors, turbidity or chemicals.

Service Area – geographic jurisdiction of water utilities.

Non-revenue Water – unbilled water.

Appropriate Technologies – suited to local conditions and resources.

Infiltration Galleries – horizontal wells which collect water over the entire length.

Accounted-for-water – billed water.

Access to Water Supply Facilities – access to water supply is categorized as follows:

Level I   - the farthest user is not more than 250 meters from the point source.

Level II   - the farthest house is not more than 25 meters from the communal faucet system.

Level III   - the house have service connection from the system.

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Private Water System – privately-owned water supply system.

Public Water System – system owned by the government.

DEFINITION OF TERMS

Sewerage and Sanitation

Sanitation – the development and practical application of sanitary measures for the sake of cleanliness and protecting health.

Sanitary Toilet – is an approved type of facility used for receiving and disposing human waste (feces and urine).

APPROVED TYPES

1. Flush – type of toilet facility with a mechanical device used to wash the waste into the receiving sewer or septic tank by the use of flushing water and with traps to provide a "water seal".

2. Poor Flush – type of toilet facility without a mechanical device and in hand-flush with "water seal" connected to receiving sewer, septic tank or leaching pit.

3. Ventilated Improved Pit refers to an on-site toilet facility without using any amount of water comprising a vent pipe with a fly screen used to trap flies in a pit and, also allows evacuation of foul air into the atmosphere. This minimizes foul odor with the latrine superstructure and traps flies that could not spread diseases through faecal contamination.

4. Sanitary Pit Privy – type of toilet facility without using any amount of water, with a pit of at least 1-2 meters depth, a hole of one square meter, provided with a floor covering a riser, seat with cover which are all fly-and rodent proof and a building for privacy including the Antipolo type.

Unsanitary Toilet – a type of facility used for receiving and disposing human waste which does not fall under the category of approved types of toilet facilities.

UNAPPROVED/UNSANITARY TYPES

1. Open Pit Privy- a pit of at least the same dimension as the sanitary pit privy, provided with pit flooring, with or without riser and seat and without cover to protect from flies and rodents.

2. Overhang – a structure provided with flooring and with an opening built above the body of water or above the ground without pit under it, used for defecation of the disposal of human waste. It can be a part of the house or a separate structure outside the house.

LEVELS OF TOILET USE

1. Communal – a toilet facility shared by two or more households.
2. Public – toilet facility located at public places like markets, bus stations, etc. intended for public use.
3. School – a toilet facility located in a school.
4. Household – a toilet facility being used by an individual household.

Sewerage - facilities that collect human waste and sullage from residences and establishments usually piped and conveyed in structures (sewers, pump stations) for eventual central treatment and safe disposal. Piped sewerage includes a collection system (street laterals), a conveyance system (trunk sewers and pump stations), and a treatment plant/disposal system.

Human Waste – solid (feces) and liquid (urine) wastes from human.

Sullage – liquid wastes resulting from washing, bathing and laundry.

Drainage System – facilities that deal with rainwater.

Unsanitary Drainage System – facilities without treatment that deal with rainwater and also receive septic tank overflow and sullage. Includes open canals.

Without Toilet – households without any toilet but using body of water like rivers, lakes, etc. open field including coastal areas, and other mean to dispose human waste.

Access – availability of toilet facility within the household premises that can be used anytime.

On Site – the human waste is deposited and treated where the toilet facility is located.

Off Site – the human waste is transported for treatment.

Provincial Water Supply, Sewerage and Sanitation Sector Plan (PW4SP)
Content: Environment Sanitation - Household Toilet
Data Collection Level: Provincial
Region Number: CARAGA

Prov. Number: 1367
Prov. Name: Surigao del Norte

Page:
Date: 21 Jul. 1998
Filename: Sanitation.xls
Form Number: P.6.1

Geographic Code Number	Name of City or Municipality (Character)	Number of Households Using Sanitary Toilets								Number of Households Using Unsanitary Toilets			Number of Households Without Toilets		
		Flush Urban	Flush Rural	Pour Flush Urban	Pour Flush Rural	VIP Urban	VIP Rural	Total Urban	Total Rural	Urban	Rural	Total	Urban	Rural	Total
136701	Alegria			690	775			690	775	202	42	244		450	450
136702	Bacuag			1,200	527			1,200	527	302	89	391		107	107
136703	Basilisa (Rizal)			328	2,811			328	2,811	240		240		1,268	1,268
136704	Burgos			371	85			371	85	87	4	91		35	35
136705	Cagdianao			531	905			531	905	214	95	309	315	215	530
136706	Claver			1,371	963			1,371	963	153		153		435	435
136707	Dapa			1,829	654			1,829	654	571	98	669		200	200
136708	Del Carmen			646	867			646	867	25	141	166		775	775
136709	Dinagat			355	779			355	779	168		168		427	427
136710	General Luna			619	1,062			619	1,062	300		300		294	294
136711	Gigaquit			865	1,288			865	1,288	352	249	601		169	169
136712	Libjo (Albor)			578	1,259			578	1,259	24	340	364		720	720
136713	Loreto			959	222			959	222	243	52	295		294	294
136714	Mainit			1,415	1,854			1,415	1,854	525		525		401	401
136715	Malimono			752	1,137			752	1,137	585		585		272	272
136716	Pilar			389	705			389	705	52	131			408	408
136717	Placer			2,072	1,175			2,072	1,175	294				497	497
136718	San Benito			373	158			373	158	13				307	307
136719	San Francisco (Anao-Aon)			552	888			552	888	275	62			260	260
136720	San Isidro			301	373			301	373	13				362	362
136728	San Jose			1,966	1,178			1,966	1,178	483			446	777	1,223
136721	Santa Monica (Sapao)			175	556			175	556	166				410	410
136722	Sison			540	946			540	946	22				200	200
136723	Socorro			1,301	862			1,301	862	38				506	506
136724	Surigao City (Capital)	1,921		5,617	5,845			7,538	5,845	6,033				1,464	1,464
136725	Tagana-An			938	942			938	942	168	41			330	330
136726	Tubajon			398	422			398	422					449	449
136727	Tubod			287	1,537			287	1,537	8				405	405

Source:

Provincial Water Supply, Sewerage and Sanitation Sector Plan (PW4SP)							Page:
Content: Environment Sanitation – School and Student							Date: 21 Jul. 1998
Data Collection Level: Provincial		Prov. Number: 1367					Filename: Sanitation.xls
Region Number: CARAGA		Prov. Name: Surigao del Norte					Form Number: P.6.2

Geographic Code Number	Name of City or Municipality Character	Number of School			Number of Student		
		Public Number	Private Number	Total Number	Public Number	Private Number	Total Number
136701	Alegria	10	1	11	3,189	185	3,374
136702	Bacuag	14	1	15	2,138	421	2,559
136703	Basilisa (Rizal)	27		27	4,460		4,460
136704	Burgos	9		9	1,506		1,506
136705	Cagdianao	19		19	2,928		2,928
136706	Claver	15		15	3,760	294	4,054
136707	Dapa	23	2	25	5,631		5,631
136708	Del Carmen	27		27	2,156		2,156
136709	Dinagat	11		11	3,152	421	3,573
136710	General Luna	16		16	3,156		3,156
136711	Gigaquit	11	1	12	3,009	224	3,233
136713	Libjo (Albor)	16		16	3,535		3,535
136713	Loreto	10	1	11	1,458	205	1,663
136714	Mainit	21	1	22	5,690	650	6,340
136715	Malimono	19		19	3,932		3,952
136716	Pilar	12		12	1,578		1,578
136717	Placer	20	1	21	4,919	231	5,150
136718	San Benito	14		14	2,301		2,301
136719	San Francisco (Anao-Aon)	14	1	15	2,524	195	2,719
136720	San Isidro	12		12	1,578		1,578
136728	San Jose	13	1	14			
136721	Santa Monica (Sapao)	8		8	1,365		1,365
136722	Sison	13		13	2,320		2,320
136723	Socorro	16		16	3,886		3,886
136724	Surigao City (Capital)	71	4	75	32,028	4,200	36,228
136725	Tagana-An	13		13	2,775		2,775
136726	Tubajon	12		12	1,869		1,869
136727	Tubod	8	1	9	2,400		2,400

Source:

Provincial Water Supply, Sewerage and Sanitation Sector Plan (PW4SP)
Content: Environment Sanitation – School Toilets
Data Collection Level: Provincial
Region Number: CARAGA
Prov. Number: 1367
Prov. Name: Surigao del Norte
Page:
Date: 21 Jul. 1998
Filename: Sanitation.xls
Form Number: P.6.3

Geography Code Number	Name of City or Municipality Character	Number of School Toilets						Total Unit
		Sanitary			Unsanitary			
		Public	Private	Total	Public	Private	Total	
		Number	Number	Number	Number	Number	Number	Number
136701	Alegria	26		26				26
136702	Bacuag							
136703	Basilisa (Rizal)	75		75				75
136704	Burgos							
136705	Cagdianao							
136706	Claver							
136707	Dapa	12		12				12
136708	Del Carmen							
136709	Dinagat							
136710	General Luna	48		48				48
136711	Gigaquit	83		83				83
136712	Libjo (Albor)							
136713	Loreto	40		40	3		3	43
136714	Mainit	76		76	2	2	4	80
136715	Malimono	42		42				42
136716	Pilar							
136717	Placer	220		220				220
136718	San Benito	40		40				40
136719	San Francisco (Anao-Aon)	75		75				75
136720	San Isidro	86		86				86
136728	San Jose	4		4				4
136721	Santa Monica (Sapao)							
136722	Sison	71		71				71
136723	Socorro							
136724	Surigao City (Capital)	518		518				518
136725	Tagana-An							
136726	Tubajon	33		33				33
136727	Tubod	24		24				24

Source:

Public Markets

Geographic Code Number	Name of City or Municipality Character	Public Markets Number	Number of Toilets					
			Sanitary		Unsanitary		Total	
			Male Number	Female Number	Male Number	Female Number	Male Number	Female Number
136701	Alegria	1	1	1			1	1
136702	Bacuag	2	2	2			2	2
136703	Basilisa (Rizal)	1	1	1			1	1
136704	Burgos	2	1	1			1	1
136705	Cagdianao	2	1	1			1	1
136706	Claver	2	1	1			1	1
136707	Dapa	2	2	2			2	2
136708	Del Carmen	2	1	1			1	1
136709	Dinagat	2	1	1			1	1
136710	General Luna	1						
136711	Gigaquit	2	1	1			1	1
136713	Libjo (Albor)	1						
136713	Loreto	2	1	1			1	1
136714	Mainit	1	1	1			1	1
136715	Malimono	2	1	1			1	1
136716	Pilar	1	1	1			1	1
136717	Placer	1	1	1			1	1
136718	San Benito	2	1	1			1	1
136719	San Francisco (Anao-Aon)	2	1	1			1	1
136720	San Isidro	2	1	1			1	1
136728	San Jose	1	2	2			2	2
136721	Santa Monica (Sapao)	2	1	1			1	1
136722	Sison	2	1	1			1	1
136723	Socorro	1	2	2			2	2
136724	Surigao City (Capital)	2	6	6			6	6
136725	Tagana-An	1	1	1			1	1
136726	Tubajon	1	1	1			1	1
136727	Tubod	1	1	1			1	1

Source:

| Geographic Code | Name of City or Municipality | Number | Jeepney/Bus Terminal Number of Toilets | | | | | |
| | | | Sanitary | | Unsanitary | | Total | |
Number	Character	Number	Male Number	Female Number	Male Number	Female Number	Male Number	Female Number
136701	Alegria							
136702	Bacuag							
136703	Basilisa (Rizal)							
136704	Burgos							
136705	Cagdianao							
136706	Claver	2	1	1			1	1
136707	Dapa	1	2	2			2	2
136708	Del Carmen							
136709	Dinagat							
136710	General Luna							
136711	Gigaquit							
136713	Libjo (Albor)							
136713	Loreto							
136714	Mainit	3	3	3			3	3
136715	Malimono	2	1	1			1	1
136716	Pilar							
136717	Placer	4	2	2			2	2
136718	San Benito	2	1	1			1	1
136719	San Francisco (Anao-Aon)							
136720	San Isidro							
136728	San Jose							
136721	Santa Monica (Sapao)							
136722	Sison							
136723	Socorro							
136724	Surigao City (Capital)	4	2	2			2	2
136725	Tagana-An							
136726	Tubajon							
136727	Tubod	1						

Source:

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Parks/Playground

Geographic Code Number	Name of City or Municipality (Character)	Number of Toilets Number	Sanitary Male Number	Sanitary Female Number	Unsanitary Male Number	Unsanitary Female Number	Total Male Number	Total Female Number
136701	Alegria	1						
136702	Bacuag	9						
136703	Basilisa (Rizal)	7						
136704	Burgos	1	2	2			2	2
136705	Cagdianao	1						
136706	Claver	3	1	1			1	1
136707	Dapa	1	1	1			1	1
136708	Del Carmen	1						
136709	Dinagat	4	4	4			4	4
136710	General Luna	1						
136711	Gigaquit	2	3	3			3	3
136713	Libjo (Albor)	5	5	5			5	5
136713	Loreto	1	2	2			2	2
136714	Mainit	1						
136715	Malimono	7	6	6			6	6
136716	Pilar	1	1	1			1	1
136717	Placer	1						
136718	San Benito	1	1	1			1	1
136719	San Francisco (Anao-Ao)	1						
136720	San Isidro	1						
136728	San Jose	2	2	2			2	2
136721	Santa Monica (Sapao)	2						
136722	Sison	1						
136723	Socorro	4	1	1			1	1
136724	Surigao City (Capital)	2	2	2			2	2
136725	Tagana-An	1						
136726	Tubajon	2						
136727	Tubod	1						

Source: