

WATER AND SEWERAGE CORPORATION
BENCHMARKING STUDY (USING WORLD BANK MODEL)

DATA REFERENCE GUIDE

| <i>ITEM NO.</i> | <i>DATA SOURCE</i> |
|---|---|
| No. 5 - GDP per capita | Mr. Armbrister Research Department Central Bank |
| No. 6 – Exchange rate | Assumption that exchange from \$US to \$B is 1:1 |
| No. 7 – Average Annual Inflation | Same as No. 5 |
| No. 8 – Minimum Annual Salary | No data available |
| No. 30 – Total population | Department of Statistics Population Data for 1990 (172,196) and 2000 (212,432) figures. The figures for 1994 – 1998 were obtained by interpolation. |
| No. 32a – Type of service provided | WSC provides water and sewerage services, therefore C |
| No. 32b – Nature of service area | The service provided on New Providence was considered urban |
| No. 34 – Number of towns served with water | All of New Providence was considered one (1) town |
| No. 35 – Number of towns served with sewerage | Same as No. 34 |
| No. 36 – Total number of staff | WSC Annual Reports, Table “C” – New Providence Full-time Staff Number |
| No. 37 – Extent of private sector involvement | B. Service Contracts F. BOOT Operations |

| ITEM NO. | DATA SOURCE |
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| No. 40 – Population served | Calculation: No. 41 x 98% x No. 43 Note: No. 43 (No. of Inhabitants per household) fell each year from 1994 – 1998, see No. 43 for further details. |
| No. 41 – Water connections year end | WSC Annual Reports, Table “C” – No. of Water Connections |
| No. 42 – Households connected year end | Calculation: No. 41 x 98% Assumption: 98% of Connections are Residential or to households |
| No. 43 – Inhabitants per household | Department of Statistics Inhabitants per Household Data for 1990 (3.9) and 2000 (3.6) figures. The figures for 1994 – 1998 were obtained by interpolation. |
| No. 53 – Connections with operating meter year end | Assumption: All connections have operating meters |
| No. 53A – Households with operating meter | Assumption: 98% of all connections are residential (households) and all meters are working) |
| No. 54 – Length of water distribution network | Assumed 400 miles (643.72 km) in 1994 and 5 miles (8.05 km) added each year thereafter. |
| No. 55 – Volume of water produced | WSC Annual Reports, Table “C” – Water into Supply |
| No. 58 – Volume of water consumed metered | Assumption: All water metered is sold |
| No. 59 – Total volume of water sold | WSC Annual Reports, Table “C” – Water Sold |
| No. 59a – Volume of water sold to residential | WSC Billing Records – Jestina Cooper |

| ITEM NO. | DATA SOURCE |
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| customers | |
| No. 59b – Volume of water sold to industrial customers | WSC Billing Records – Jestina Cooper |
| No. 60 – Number of pipe breaks (water) | WSC Annual Reports, History of Leak Repairs Graph Assumption: Service Repairs + Mains Repairs = No. of Pipe Breaks |
| No. 61 – Duration of supply (water) | Assumption: New Providence water supply is 24 hrs./day |
| No. 62 – Number of complaints (water) | WSC Annual Reports, History of Complaints Graph Assumption: No water + Rusty water + Smelly water complaints = No. of Water Complaints |
| No. 70 – Population served | Calculation: No. 71 x No. 43 Inhabitants per Household) |
| No. 71 – Sewerage connections year end | WSC Annual Reports, Table “C” – No. of Sewer Connections |
| No. 72 – Households connected year end | Calculation: No. 71 x 98% Assumption: 98% of Connections are Residential or to households |
| No. 74 – Length of sewers | No data available |
| No. 78 – Number of complaints (sewer) | WSC Annual Reports, History of Customer Complaints Table Assumption: Blockages + Brackish Water Complaints = No. of Sewerage Complaints |
| No. 79 – Number of sewerage blockages | WSC Annual Reports, History of Customer Complaints Table |
| No. 80 – Wastewater treatment | Assumption: 100% of sewerage flows receive at least primary treatment |

| <i>ITEM NO.</i> | <i>DATA SOURCE</i> |
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| No. 90 – Total operating revenues | WSC Annual Reports, Statement of Operations for New Providence Table |
| No. 90a – Total billings to residential customers | WSC Billing Records – Jestina Cooper |
| No. 90b – Total billings to industrial customers | WSC Billing Records – Jestina Cooper |
| No. 94 – Total operating expenses | WSC Annual Reports, Statement of Operations for New Providence Table |
| No. 96 – Labor Costs | WSC Annual Budget Reports, Annual Figures for the previous year (New Providence Only) |
| No. 99 – Contracted out services costs | <p>WSC Annual Reports</p> <p>Assumption: Purchase of Water + Shipping of Water + Public Relations + Outside Services + Professional Consulting Services + Audit Fees = Contracted Out Services Costs</p> |
| No. 111 – Total net fixed assets | WSC Annual Reports, Fixed Assets for New Providence. |
| No. 114 – Total debt service | WSC Annual Reports, Summation of Principal due within one year on long-term debt + less long-term debt non-current portion |
| No. 119 – Annual investments | <p>WSC Annual Reports</p> <p>Assumption: Change in Fixed Assets for New Providence [Additions - Transfers = Annual Investments]</p> |
| No. 120 - Year end accounts receivable | WSC Annual Reports, Total Accounts Receivable for New Providence |
| No. 146 – Fixed charge per month for residential customers | Assumption: \$30 per quarter/3 months = \$10/mth. |

| <i>ITEM NO.</i> | <i>DATA SOURCE</i> |
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| No. 147 – Connection charges (water) | Data from the Customer Services Department |
| No. 148 – Connection charges (sewers) | Same as No. 147 |