

**PUBLIC SPENDING AT THE DISTRICT LEVEL  
IN GHANA**

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Ghana Strategy Support Program (GSSP)  
Background Paper No. GSSP 0008

September 2007

**In collaboration with:**

Institute of Statistical, Social and Economic Research  
(ISSER)

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## **THE GHANA STRATEGY SUPPORT PROGRAM (GSSP) BACKGROUND PAPERS**

### **ABOUT GSSP**

GSSP is a research, communication, and capacity-strengthening program to build the capabilities of researchers, administrators, policymakers, and members of civil society in Ghana to develop and implement agricultural and rural development strategies. With core funding from the U.S. Agency for International Development (USAID)/Ghana and a mandate to develop a multi-donor-funded Program, IFPRI launched GSSP as a partnership between Ghana and its development partners. IFPRI is working with these stakeholders to generate information, improve dialogue, and sharpen decisionmaking processes essential for effective formulation and implementation of development strategies. GSSP informs stakeholders on the role of agriculture and rural development in the broader economic and policy context in line with the emphasis placed on agriculture in Ghana's Growth and Poverty Reduction Strategy. GSSP supports the development and implementation of a system to monitor and evaluate progress toward achieving Ghana's growth and poverty reduction targets and the Millennium Development Goals.

### **ABOUT THESE BACKGROUND PAPERS**

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A draft report submitted to the International Food Policy Research Institute's  
Ghana Strategy Support Program (GSSP)

September 2007

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## 1. INTRODUCTION

Public spending may influence poverty alleviation objectives at several levels including overall spending plans of government (aggregate fiscal policy), policy decisions funded in the budget and the flow of budgeted resources to Ministries, Department and Agencies (MDAs); frontline service delivery institutions whose activities directly impact the development outcomes. As a starting point for analysis of the returns of public spending at the district level, this short report attempts to review the trends in financial inflows and outlays from District Assemblies (DAs) and link them to key development outcomes over the period spanning 1994 to 2004.

To minimize emphasis on traditional financial management system whereby control of resources over achievement of outcome-oriented objectives is stressed, Ghana introduced its MTEF in 1998 to enhance budgetary performance. The budget formulation phases of the preparation of the MTEF successfully initiated a shift from the traditional incremental but fragmented annual budgetary exercise to one that has more of a performance focus (World Bank, 2001). The current system has more medium-term perspective and it holds the potential to integrate decisions on recurrent and capital expenditure and sources of funding. It is also hoped that the MTEF could offer support to the efforts to devolve authority within central government sector ministries to district level so as to make the links between resources and performance at the lower levels of government more clear and easy to evaluate. Ghana has so far implemented the MTEF concept at the MDAs' level but it is hoped that on-going preparation for a more financial decentralized concept - composite budgeting approach within the MTEF framework - at the district level will extend potential gains from the MTEF approach to the local level of governance<sup>1</sup>.

Despite significant progress made, weaknesses in the implementation of the MTEF continue to make assessment of the gains in efficiency and effectiveness of government programmes quite difficult at the MDAs' level. Notable amongst such problems in general is the classification of financial inflows and outlays at the district level. Judging how over time organizations have become flexible and responsive, whether resources are diverted from delivery of essential services to administrative overheads, and even whether the public service system has appropriate incentives to generate desirable outputs and outcomes is complicated. Classification of expenditure by programme categories is often desirable in this regard, but at this stage the information available at the national level do not permit detailed discussions that

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<sup>1</sup> The composite budgets would serve an informational purpose mostly as they would incorporate expenditure under different jurisdictions aggregating the budgets of the decentralized departments together with the central administration budget of the DAs into a composite budget. Thus it is hoped that the approach would provide the basis for fiscal reports that include all tiers of government at the district level.

would link plan and policy objectives more directly to budget provisions for running of development programmes.

We have therefore, used information from three main sources to analyze what is easily available and assess the extent of work that is required to get detailed and precise estimates on the returns to public spending at lower levels of governance. We obtained information on expenditures and revenue from district assemblies' trial balances from the Controller and Accountant Generals Department. We have also used data on both releases and utilization of resources from the District Assemblies' Common Fund (DACF) Secretariat<sup>2</sup> and obtained information on health, education, water and sanitation from the datasets gathered from the two Core Welfare Indicators Questionnaire surveys conducted by the Ghana Statistical Service. The data from the trial balances were obtained through the assistance of IFPRI office in Accra. There are plans to liaise with various MDAs to gather more financial and development outcome data in order to get a more detailed understanding of the issues IFPRI has asked ISSER to investigate.

The first set of tasks to be accomplished in the terms of reference concerning district level analysis is; (i) to develop a more detailed database to permit deeper analysis of the impacts of various forms of government spending on growth and poverty reduction, (ii) to analyze expenditures of district assemblies and examine their sources of funds, and (iii) to relate public spending to development outcomes of key sectors at the district level. It is important to note that this report is mainly descriptive and intended to provide preliminary explanation of the relationship between public expenditures and district level development outcomes.

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<sup>2</sup> The DACF represents one of the most important financial inflows to district assemblies. Constitutionally, 5% of total government revenue is shared among the assemblies on a formula determined by Parliament. The percentage has recently been increased to 7.5%.

## **2. TRENDS IN PUBLIC EXPENDITURES AT THE DISTRICT LEVEL**

Ghana's 10 administrative regions are subdivided into 138 distinctive metropolitan, municipal and district assemblies. The political-administrative head in each district is the district chief executive – similar to an executive mayor. The district chief executive is nominated by the state president and must receive the approval of two-thirds of the district assembly. Each district has a district coordinating director, similar in role to a town clerk as head of paid service.

Each district assembly also has a presiding member who is the chairperson and is elected by at least two-thirds of the members of the assembly. All elected assembly members represent single member wards and they are required to meet at least three times each year. Priorities that drive the development agenda at the district level are set by an executive committee comprising not more than one-third of all assembly members.

The district chief executive chairs the executive committee, and the executive committee normally has a number of sub-committees, which deliberate over issues and make recommendations to the executive committee. The executive in turn reports to the district assembly in full session. Apart from the executive committee there are five mandatory subcommittees: *development planning, social services, works, justice and security, and finance and administration.*

With the exception of the presiding member, all district assembly members must sit on at least one sub-committee. The assemblies have full discretion to establish further committees as they see fit. They are also empowered to establish joint committees with one another for any project in which they hold a joint interest.

The system of accounting at the district level follows the concept of classifying expenses according to economic classification and line item details. The assemblies' financial system operates according to economic categories, distinguishing among capital and current spending. Further details are classified according to categories used for administrative control, like separation of salaries from transportation and general administration. Even though recurrent and capital budgets (sometimes also referred to as development budget) are not merged they are coordinated to enable coherent and strategic expenditure planning. The two form the main sections of public spending at the district level.

The district assemblies have two major expenditure classification systems; the main budget expenditure classification and the supplementary budget expenditure classification for accessing and utilization of the district assemblies' common fund. The supplementary budget is the DACF expenditure budget covering projects envisaged by the assemblies in the ensuing year. It also covers recurrent expenses permitted under the guidelines for utilization of the

common fund, which is issued from time to time by the Ministries of Local Government and Rural Development and Finance and Economic Planning.

In the main budget the expenditure classification covers seven major expenditure headings namely, personnel emoluments; traveling and transport expenditure; general expenditure; maintenance, repairs and renewals; miscellaneous expenditure; subventions and; capital expenditure (see Appendix 2 and 3 for details about sub-headings of the various items). The supplementary expenditure classification covers five major sectoral headings namely, education; health and sanitation; local government and rural development; agriculture and; economic activities (details on this classification are provided in section 2.2).

Like the subsequent sections in this report, the data in this section relate solely to expenditures incurred by DAs. Therefore, the items do not include other public spending by various MDAs that work in the districts. Expenses by development partners that do not pass through district assemblies' financial systems are also not covered in this analysis. It is important to note that the other organizations directly implementing their programmes outside the budgeting framework of the DAs could be spending on similar items like those the DAs spend on. Indeed, the DAs could be aware of the types and levels of expenditures by the agencies but they could not have direct control over them, and as such it is difficult for reports like this to show the volume of these expenditures relative to DAs expenses. The situation makes it difficult to assess the real volume of financial flows to the jurisdiction of the different DAs. By way of comparison, the total amount of money expended by the assemblies constitutes 6.5% of total national government expenditure and about 1.8% of total GDP in 2004 (see Table 2.1 for other details on the size of public spending that DAs control directly).

Before describing the trends in the components of recurrent expenditure, we have presented average recurrent expenditures in Table 2.2 and Figures 2.1 to 2.4, which compare them to capital expenditures across the various categories of districts. The district assemblies are different in many respects, so it will be quite misleading to combine them and report averages of key policy variables for all of them. In this report we categorized them using the Ministry of Local Government's administrative classification, which invariably also reflects the size of the districts and other socio-economic differences. Our first group is termed "metropolitan assemblies", which are assemblies with population of over 250,000. Ghana had 3 of them by the year 2004 and they also served as regional capitals. The second is termed "other regional capitals" to represent the assemblies that serve as regional capitals but are not metropolis. The third group represents districts that do not have a single urban locality, which were 4 in number out of the total of 110 districts Ghana had in 2004<sup>3</sup>. These are examples of the many configurations that the DAs can fall into; ecological, level of deprivation or even

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<sup>3</sup> The districts with no urban locality in 2004 were Amansie West in Ashanti Region, Builsa and Bongo in Upper East Region and Nadowli in Upper West Region

ethnicity. We have left out the last group because our intention of grouping them here is only to highlight the fact that it is quite misleading to generalize patterns of spending for the DAs by using only averages.

Table 2.1 District Assemblies Total Expenditures as Percentage of Some National Economic Aggregates (%), 2000-2004

Year	% of Total Revenue	% of Tax Revenue	% of Total Expenditures	% of GDP
2000	5.2	6.2	4.2	0.4
2001	5.4	5.4	4.0	0.7
2002	4.9	5.7	4.5	0.9
2003				
2004	5.9	8.0	6.5	1.8

*Source: Computed from Public Accounts of Ghana (CAGD, various issues), DAs Trial Balances (MLGRD, various issues) and State of Ghanaian Economy Report (ISSER, various issues)*

The average expenditure figures have been adjusted for population sizes of the districts by using weighted average computations. Recurrent expenditures on the average constitute nearly 55% of total outlays by the DAs with a large degree of variations between the districts and over time. The metropolitan assemblies' recurrent expenditures form nearly two-thirds of total expenditures while smaller districts spend just about a fifth of total expenditures on recurrent spending items.

Table 2.2 Average Shares of District Assemblies Total Spending (%)

Expenditure Item	Metropolitan Assemblies	Other Regional Capitals	Districts with no urban locality	All District Assemblies
<b>Recurrent o/w</b>				
Personal emoluments	27.5	24.0	10.8	24.2
Travel and transport	8.8	6.9	4.0	8.2
General	5.5	4.0	2.4	5.1
Maintenance & Repairs	2.8	0.9	0.5	2.3
Miscellaneous	20.3	4.3	3.4	15.0
<b>Sub-total</b>	<b>65.0</b>	<b>40.1</b>	<b>21.0</b>	<b>54.8</b>
<b>Capital</b>	<b>35.0</b>	<b>59.9</b>	<b>79.0</b>	<b>45.2</b>
Total	100.0	100.0	100.0	100.0

*Source: Computed from District Assemblies' Trial Balances, MLGRD: 1994-2004*

In Figure 2.1, the recurrent and capital expenditures are compared across all districts. The results show that for most of the period (between 1994 and 1998, and also from 2001 to 2002), recurrent expenditures were higher than capital expenditures for all the districts if they are analyzed together (Figure 2.1). A closer inspection of the trends reveal that average recurrent expenditure for all the districts declined between 1994 and 1999, rose sharply in 2000 and declined again by 2003. Average capital expenditures have however assumed an

upward trend after 1997. It is interesting to observe that in 2000, average recurrent and capital expenditures for all districts were almost equal. Over the last few years, capital expenditures have outpaced recurrent expenditures for all districts – whereas average capital expenditures rose between 2002 and 2004, average recurrent expenditures declined.

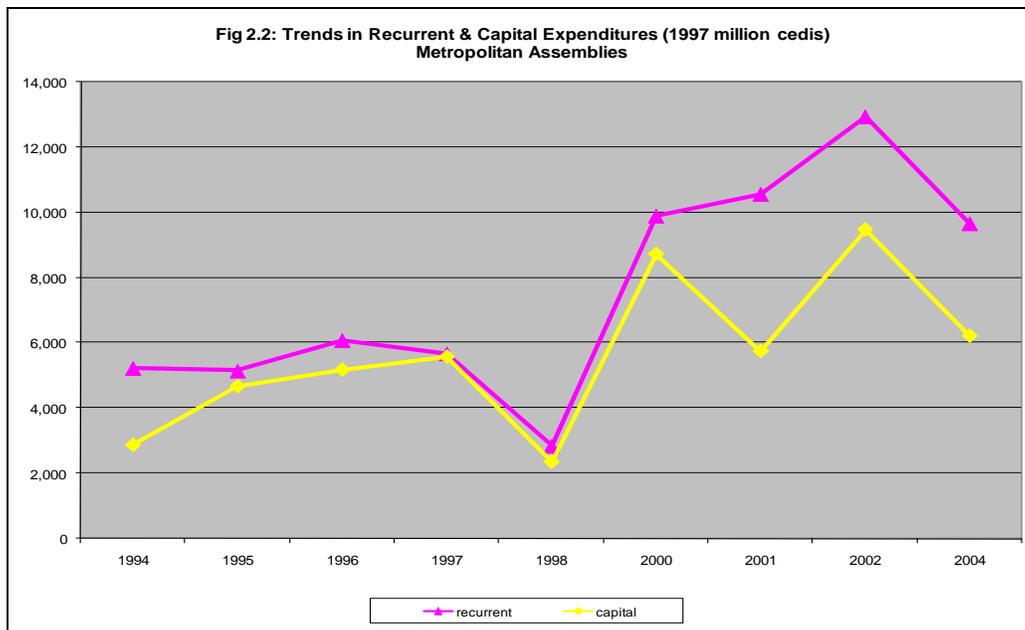
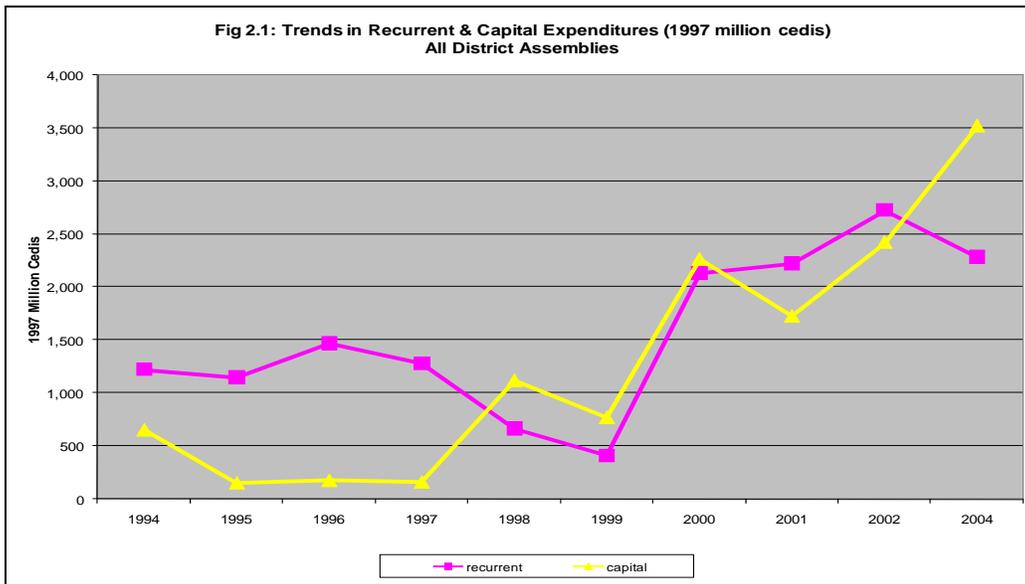
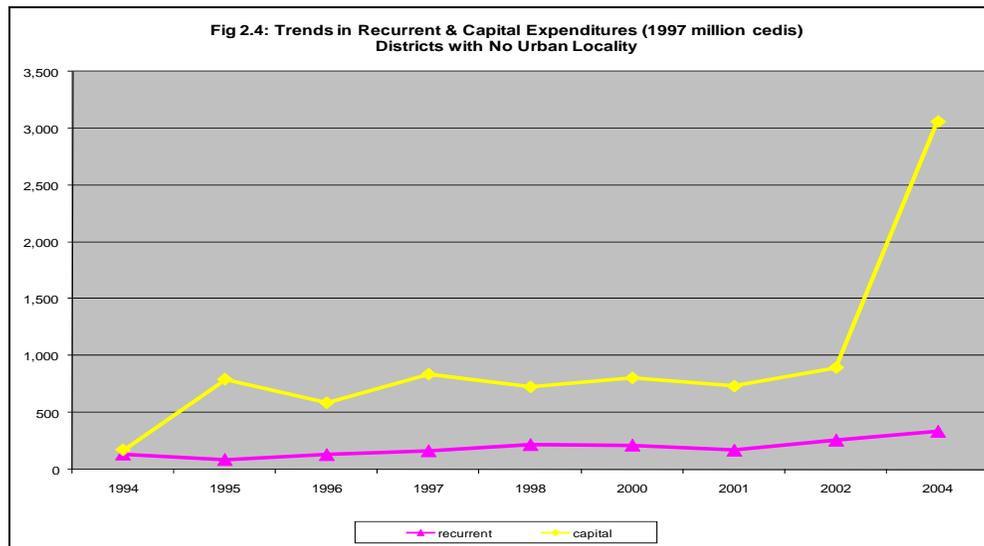
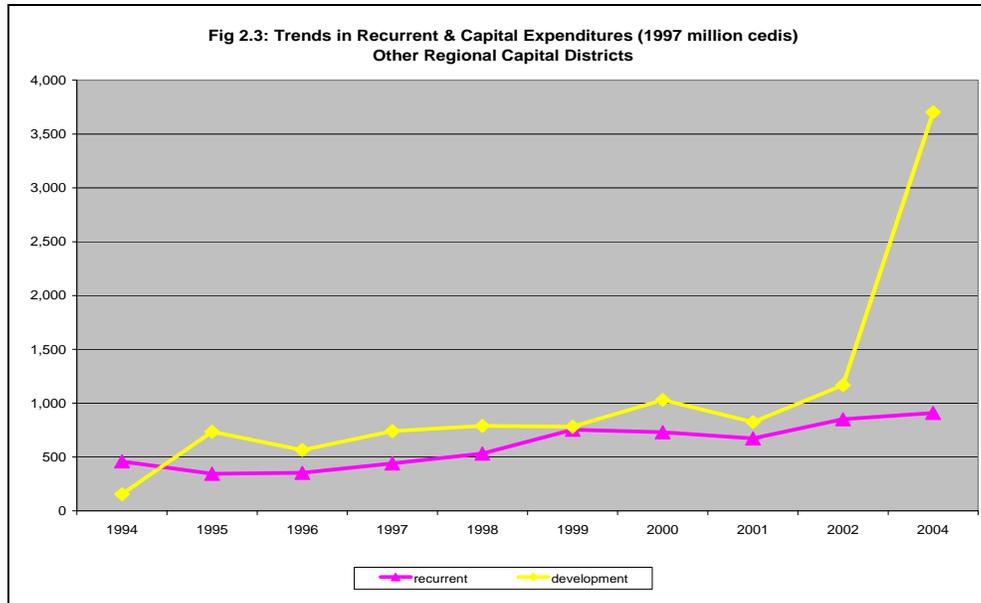


Figure 2.2 describes the comparison of average recurrent and capital expenditures for metropolitan district assemblies. The results show that with the exception of 1997 and 1998 where average recurrent and capital expenditures were almost the same, recurrent expenditures were above capital expenditures over the period of the study. The trends reveal

that both expenditures were relatively close for metropolitan DAs between 1994 and 2000. After 2000 however, capital expenditures have lagged far behind recurrent expenditures in these districts. Compared to Figure 2.7, it will be observed that miscellaneous expenditures have formed a larger proportion of rising recurrent expenditures since 2000. It is worth noting that it was only in metropolitan district assemblies that the two expenditure items declined between 2002 and 2004 (see Figures 2.2, 2.3 and 2.4).



An observation of this comparison for other regional capital districts (Figure 2.3) shows a totally different picture from metropolitan DAs. For these capital districts, capital expenditure has been higher than recurrent expenditures over the period of the study.

It appears that the more rural the districts are, the higher the levels of average capital expenditures and vice versa. This becomes clear when one compares trends in districts with no urban locality to other district categories as described above. In Figure 2.4 the average expenditures are compared for districts without urban localities. A number of reasons could be assigned to this observation; the obvious one could be related to the size of bureaucracies, the number of employees and the size of government at that level relative to the level of spending for infrastructural projects. The size of government at the various categories of DAs is briefly discussed in section 2.1.

Figure 2.4 reveals that with the exception of 1994, average capital expenditures have been far above recurrent expenditures in districts with no urban localities. The growth in both expenditure items has been very gradual and almost stable. One similarity between this category of districts and the others is that between 2002 and 2004 capital expenditures have risen very sharply. However unlike in other district categories and all districts between 2002 and 2004, recurrent expenditures were stable.

## **2.1 Components of Recurrent Expenditures**

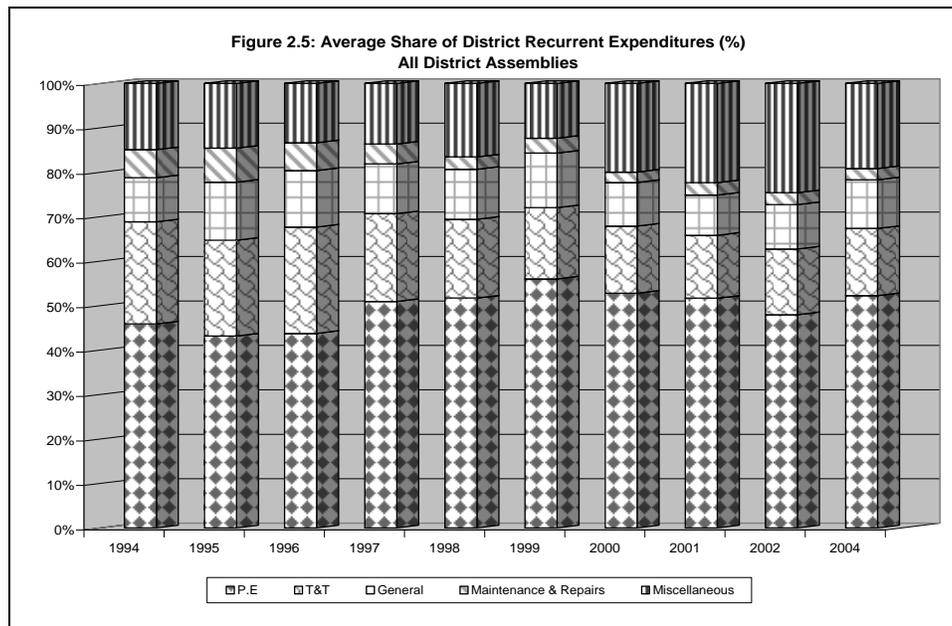
District assemblies' recurrent expenditures as shown in Figures 2.5 to 2.8 have been analyzed by computing the shares of the various components of the recurrent expenditure. The main components are personnel emolument (PE); transportation (T and T); Miscellaneous as well as Maintenance and Repair. The analyses reveal that over the period 1994 to 2004, personnel emoluments have consistently formed the highest proportion of recurrent expenditure at the district level. Personnel emoluments are composed of such expenditure items as salaries, wages, allowances and commissions.

Transportation cost is composed of transportation allowances, running of district vehicles, maintenance allowances, night allowances and transfer grants. General expenditure is also composed of entertainment, protocol, stationery, office facilities, bank charges, library and accommodation. Maintenance expenditure represents payments made for maintenance of office machines, furniture and property. Miscellaneous expenditure is made up of a number of items which include *inter-alia* utility payments, expenditure on public information, *ex-gratia* awards and anniversaries (see Appendix 3).

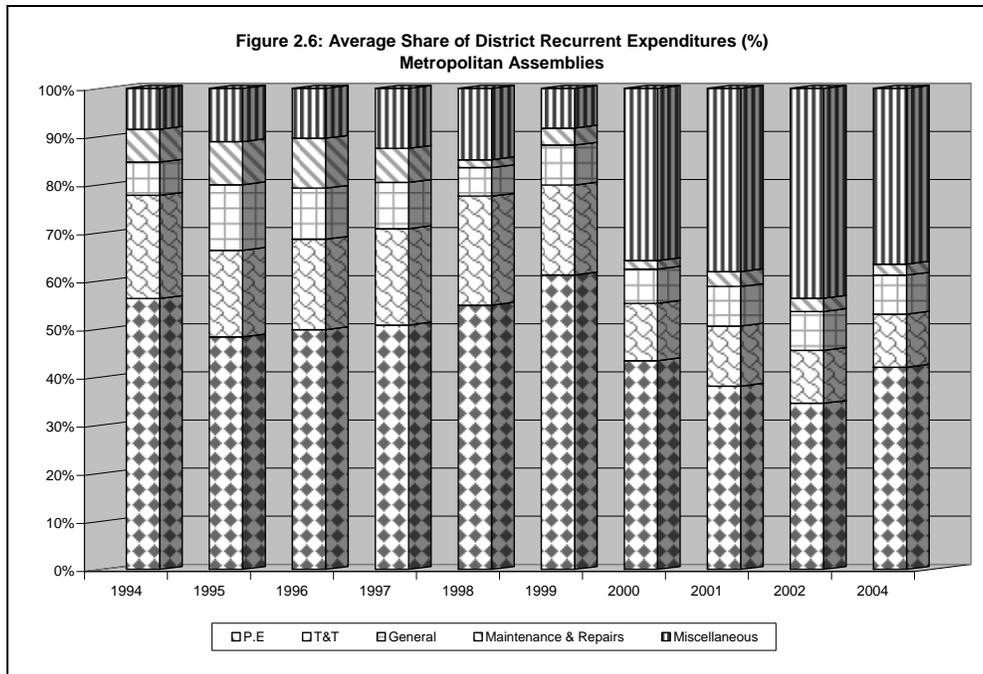
For all the districts combined, the share of personnel emoluments in recurrent expenditure has been greater than 43% over the years under consideration. The range has been between 43.2% in 1995 to 52.3% in 2005. Whereas between 1994 and 1999 there was a general rising trend in personnel emoluments for the average for all districts, these trends have generally stabilized around 52% of total recurrent expenditure since 2000.

For all the districts, the average shares of transportation and miscellany in recurrent expenditure displayed inverse trends over the years. From Figure 2.5, it can be observed that

while the share of transportation declined from 22.9% of recurrent expenditure in 1994 to about 15% in 2004, the share of miscellaneous expenditure generally rose from 14.9% in 1994 to 24.6% in 2004. Repairs and Maintenance have formed the smallest component of recurrent expenditure between 1994 and 2004 ranging from 7.7% in 1995 to 2.5% in 2004. Items under this sub-heading include maintenance of office buildings, roads, and machines that are made to ensure continuity of service provision all year round. However, the results of this trend point to inadequate funding for maintenance, which could gradually degrade capital investments and quality of service.

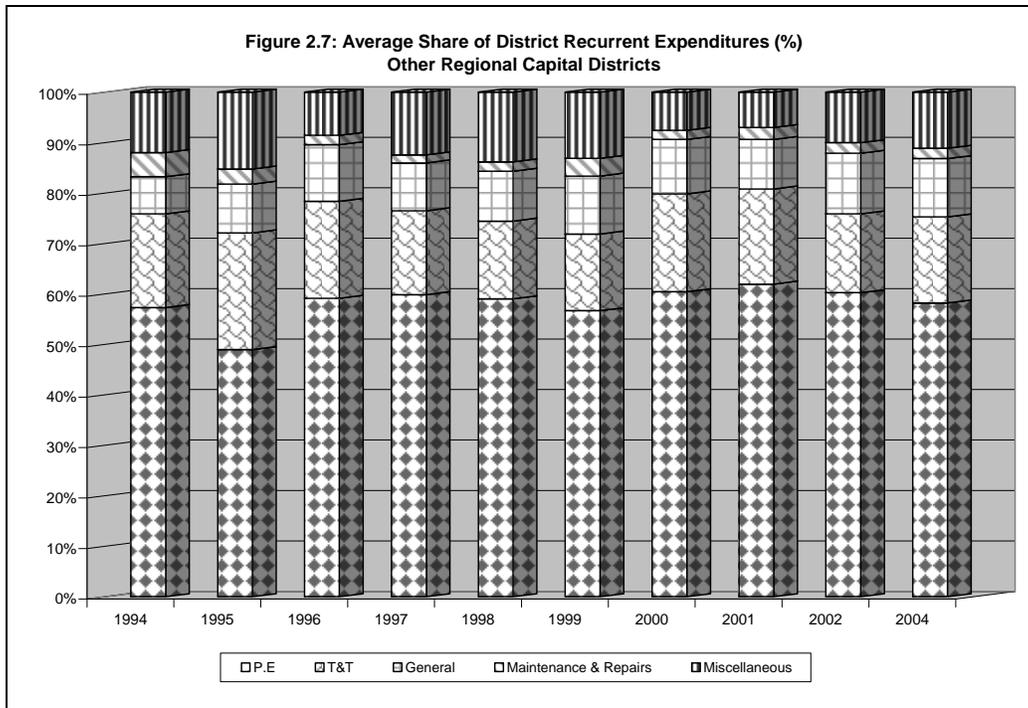


The components of recurrent expenditure however displayed much different trends when analyzed with regards to different categories of DAs. Figure 2.6 shows the breakdown of recurrent expenditures by Metropolitan Assemblies.

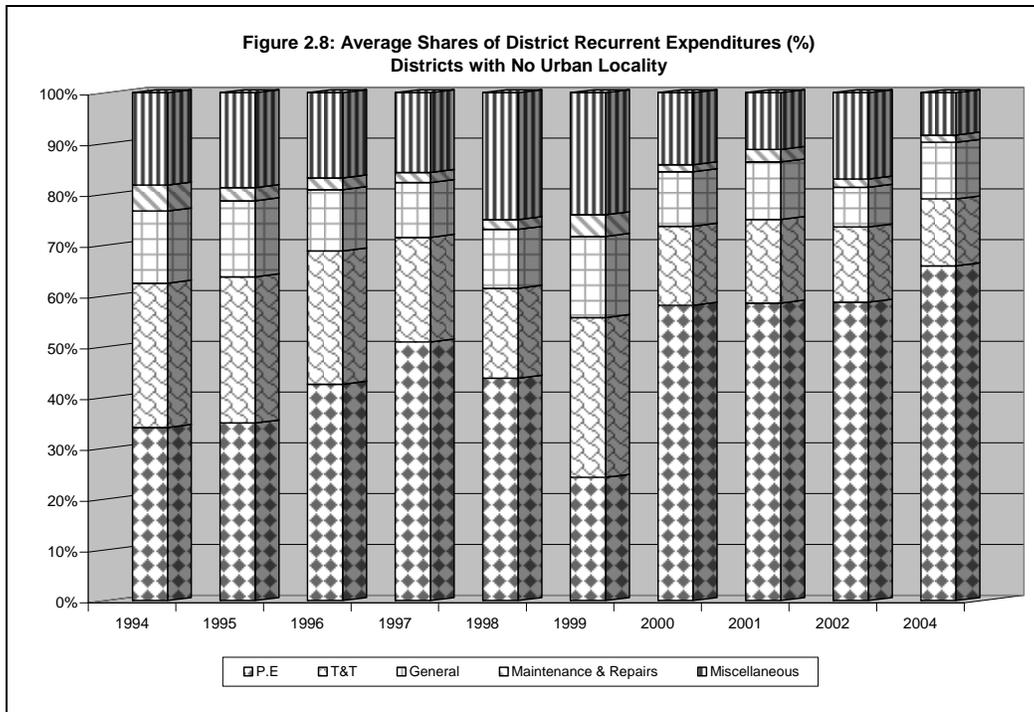


Among Metropolitan DAs, as the general case is, personnel emoluments constituted the highest proportion between 1994 and 1999. From 2000 however, the proportion of miscellaneous expenditure in total recurrent expenditure for metropolitan assemblies rose sharply from 8.3% in 1999 to 43.6% in 2003. The share of transport in the recurrent expenditures of metropolitan assemblies was highest between 1997 and 1998 making up about 20% of total recurrent expenditure. By 2004 however the share of transportation cost had declined to about 10% of total recurrent expenditure. The relatively declining importance of PE and the rising cost on miscellany points to the need to re-define line items for this group of local government institutions so as to permit reasonable categorization and analysis. As the component distribution stands now, it is not clear whether public policy is making progress in posting relatively more personnel to rural districts to boost capacity at the expense of less deprived districts or whether it is time to modify definition of DA expenditure items.

The picture is slightly different for other regional capital districts where the share of personnel emoluments averaged about 60% of total recurrent expenditure over the period 1996 to 2004. What is peculiar about this group of capital districts is that the share of personnel emoluments has been generally stable over the years and it becomes difficult to judge what is changing or is not changing with regards to the size of government at the local level. Is it because limits are imposed on the proportion of expenses for personal emoluments? Or is this reflecting policy response to selective placement of personnel in different local authorities?



Districts with no urban locality however have a different pattern of the components of recurrent expenditure. The average share of personnel emoluments rose for 34% in 1994 to 51.5% in 1997; it then declined to 24% in 1998 and has since increased gradually to 65% in 2004. In contrast, the share of transportation cost declined from 28.4% in 1994 to 17.7% in 1998 then rose sharply to 31.5% in 1999 and declined gradually to 13.2% by 2004 (Figure 2.8). It is not clear what this relationship, between expenses on transport and personnel, is telling us. Are DAs cutting down expenses on monitoring of projects in remote communities or is it the case that improvement in good road networks or communication facilities is reducing cost of transportation? It will also be interesting to know whether the rise in personnel cost signifies increased posting of more qualified staff to rural areas. Information on posting of personnel in various local authorities will help explain this relationship (from both Figure 2.7 and Figure 2.7) more clearly.



## 2.2 Components of Capital Expenditures

Capital expenditures incurred by district assemblies are categorized as economic, social (including health, education, water and sanitation), self-help projects, and construction of sub-district structures. Others include spending on micro-projects and matching funds for externally funded development projects. These expenditures in principle present one-off capital expenses on projects and programmes.

Sources of data for this report did not allow the team to have a detailed picture for the shares of these components across districts and over time. Such information is obtainable either from the archives of various district assemblies or from the archives of the Decentralization Unit of the Ministry of Local Government, Environment and Rural Development but due to constraints of time and limited resources the data could not be accessed. We however report on how the DAs utilized resources from the common fund.

### *The District Assemblies Common Fund (DACF)*

The DACF, also referred to as the common fund, is a statutory arrangement backed by the constitution of Ghana (1992) to transfer financial resources from central government to the local authority for investment in development projects and other purposes as defined in the Act that established the Fund. The distribution of the Fund is based on the recommendation of the Administrator of the Fund, which has to be approved by Parliament before disbursement to the DAs can be done.

*Guidelines for the use of the common fund*

Since the year 2003, poverty situation in a particular DA has been added to the original four factors that are used as criteria for the distribution of DACF to DAs. The factors have various levels of weight and by design the weights are varied according to the proposal of the administrator based on various levels of consultations. We outline the rationale for the factors used and details about their respective weights can be found in Table 2.3:

- ❖ *The Need Factor:* This is set to address the imbalance in development and infrastructure among the districts. The level of need is determined from the GDP per capita;
- ❖ *The Equalizing Factor:* This is aimed at ensuring that DAs have a minimum allocation from the fund;
- ❖ *The Responsive Factor:* This is the rewarding factor for DAs that have done well in revenue collection in terms of per capita revenue collected;
- ❖ *The Service Pressure Factor:* This factor serves to compensate for population pressure on facilities; and
- ❖ *The Poverty Factor:* This was set in line with the Ghana Poverty Reduction Strategy (GPRS) to make the DACF allocation more pro-poor. The factor allocates a little bit more resources to less deprived districts.

Table 2.3: Formula (weights) for the allocation of DACF (2000-2004) (%)

Factor	2000	2001	2002	2003	2004	2005
Need	35	40	50	50	35	35
Equalizing	30	30	35	35	60	60
Responsiveness	20	15	5	5	2	3
Service Pressure	15	15	10	5	3	2
Poverty				5		
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

*Source: District Assemblies Common Fund Secretariat*

A Reserve Fund (ranging from 10% to 20%) of the Common Fund (DACF) is retained to provide resources for the following expenses:

- Members of Parliament (MPs) constituency projects. These were initially paid into the DACF of the relevant constituencies but since 1999 have been lodged in a separate account. The DAs are expected to exercise oversight over the use of the MPs fund.
- Ten Regional Coordinating Councils (RCCs) share for statutory role of monitoring, coordinating and evaluating the performance of the DAs. While 50% of this

allocation is shared equally to all the RCCs, the other 50% is shared proportionally to the regions using the number of districts in each region as a basis.

- Separate allocation for sanitation, rural/feeder roads, rural health, housing and telecommunications. This allocation is meant to be used as counterpart funding of projects co-financed with donors and also to fund emergencies.
- The office of the Administrator's allocation for monitoring of its activities.

The Reserve Fund is often deducted before the Formula is applied to the remaining quantum of money. Even though a formula is used to allocate the Fund, actual utilization in a year depends on the DAs' timely submission of proposals (based on their development plans) to the Administrator and the level of projected revenue that could be realized in the year. The DACF is often accompanied with guidelines on spending at the district level. Though some variations exist over the years in the guidelines, on the average, about 41% of the DACF has often been predetermined for districts as in the following areas:

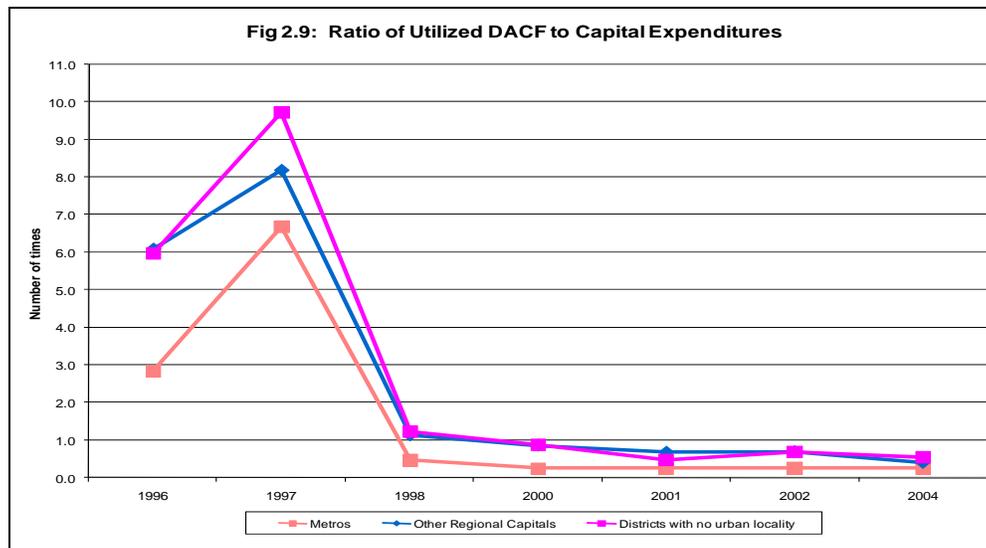
- Not less 2% as district education fund for needy but brilliant students
- 10% for self-help projects
- 20% for productivity improvement and employment generation
- 1% for HVI/AIDS
- 1% for malaria control
- 5% to support sub district structures
- 2% for capacity building programmes by Institute of Local Government Studies

The other 59 has often been directed to be spent in the economic, social, environment and other local government expenditures (2005 DACF guidelines).

Monies are released on quarterly basis after revenue has been collected, implying that one year's final quarter money can only be received in the subsequent year. There are instances when further delays in the allocation and disbursements of the Fund to the District Assemblies occurred but statutory requirement of setting aside 5% of all tax revenue for the DACF has broadly been followed, sometimes (i.e. 1995 and 1996) exceeding the required amount (ISODEC, 2005).

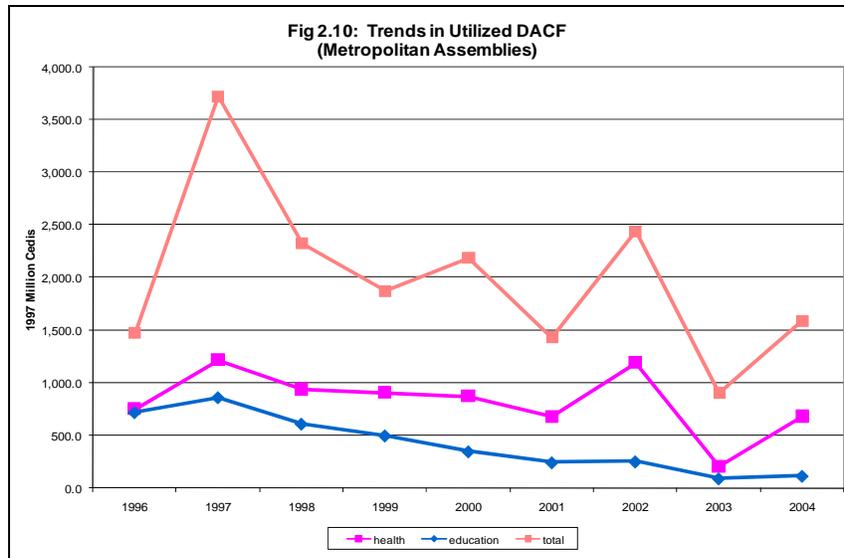
There is the need to exercise caution in looking at the relationship between capital expenditures and utilized DACF at the early stages of the implementation of the common

fund policy<sup>4</sup>. Analysis of the relationship between utilization of DACF and total expenses on capital items shows that the amount of money received from the common fund and spent by the district assemblies was far more than what the assemblies needed to finance their capital expenditures before 1998. For example in 1996, the average ratios of utilized DACF to total capital expenditures were 3 and 6 times for the metropolitan assemblies and for the other assemblies respectively. These ratios rose substantially in 1997 but have since 1998 been declining remarkably (Figure 2.9).

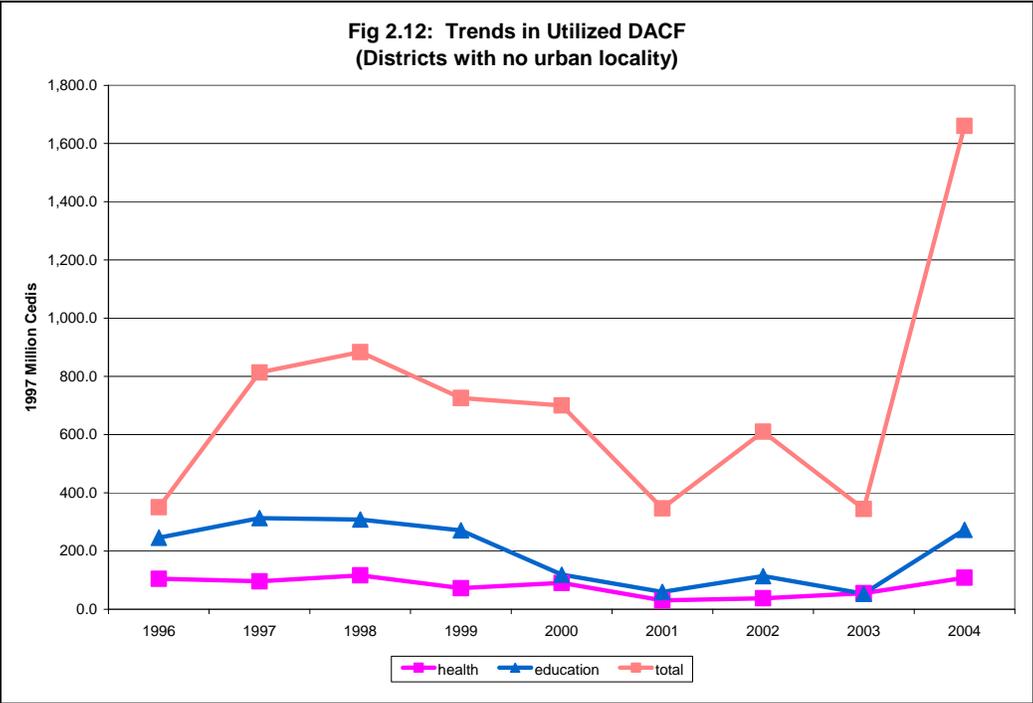
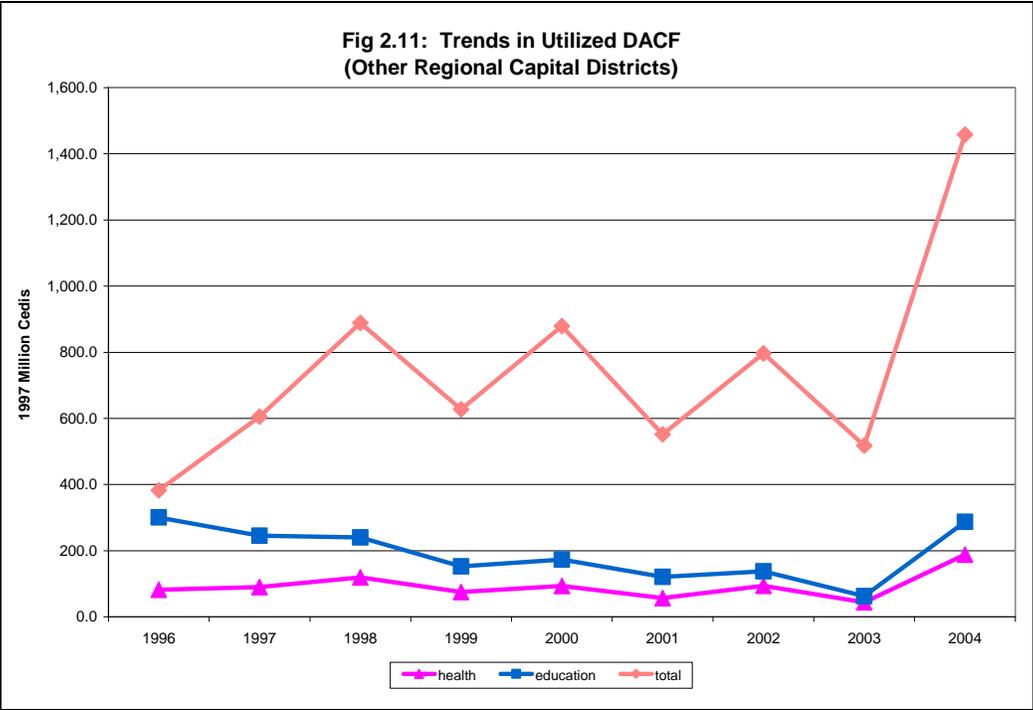


It is not very clear as to how the amount of money utilized from the DACF was captured in the capital expenditures components. It could also mean that other inflows from development partners and HIPC sources to finance development activities in recent times have led to substantial reduction of the ratio of DACF to capital expenditures to levels much lower than 50%. In fact, in real terms, the level of DACF utilized by the DAs has remained unstable and has indeed been declining for some districts (Figure 2.10).

<sup>4</sup> There could be possible discrepancies in the data which needs to be properly examined



This is particularly the case for metropolitan assemblies and rural DAs, except for 2004 when the latter group experienced an unusual utilization of DACF due to late releases of DACF earmarked for 2002 in 2004 (Figures 3.10 to 3.12). The situation is partly responsible for the declining levels of DACF spent on health and education activities, which have hitherto been the sectors that received nearly all of common fund resources. It is possible that the declining trend is due to an increase in earmarked funds like the Ghana Education Trust Fund (GETFund), which ties government's hands. That is it could also be argued that the higher the level of central government and other development partners' allocation for the traditional budget items the higher the likelihood that the DAs will avoid investing on such items.



### 3. TRENDS IN KEY SOURCES OF FUNDING FOR DISTRICT ASSEMBLIES

There are many sources of funds to run district assemblies' activities. They are broadly defined as *internally generated funds* (IGF) and grants, which constitute all external sources that are passed through the assemblies' financial system. Information in Table 3.1 and Figures 3.1 to 3.4 outline a comparison between average IGF and grants received by different categories of districts. Sources of IGF are described in section 3.1 and components of grant are briefly described in section 3.2.

Table 3.1: Average Shares of District Assemblies Total Financial Inflows (%)

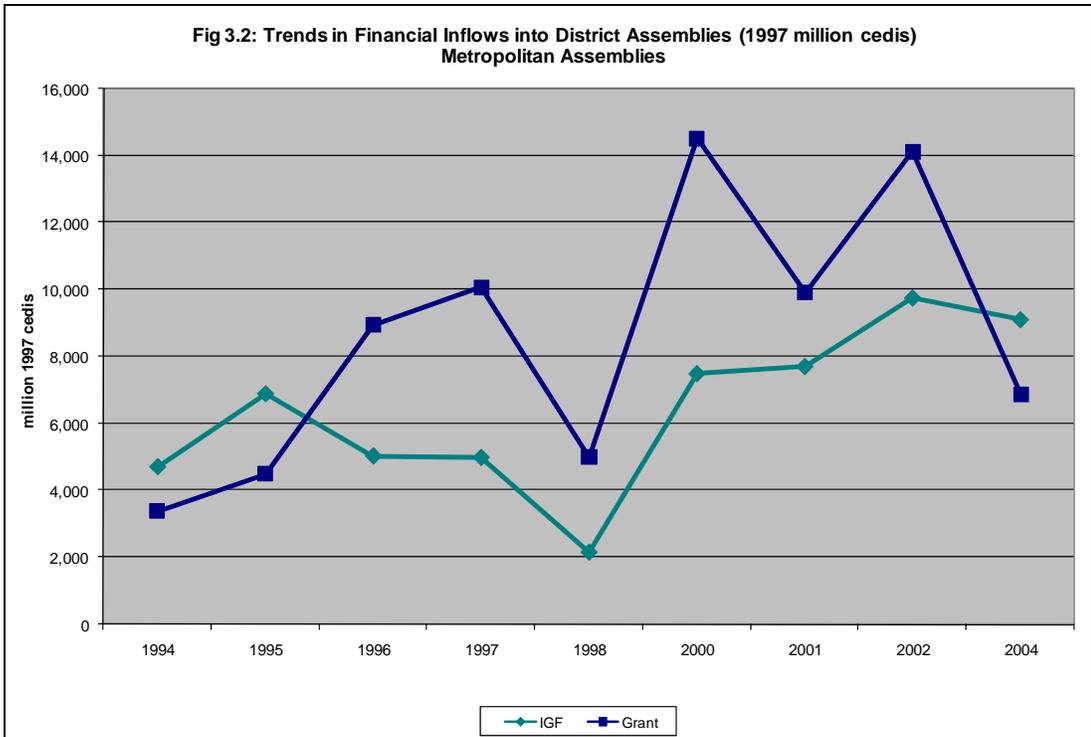
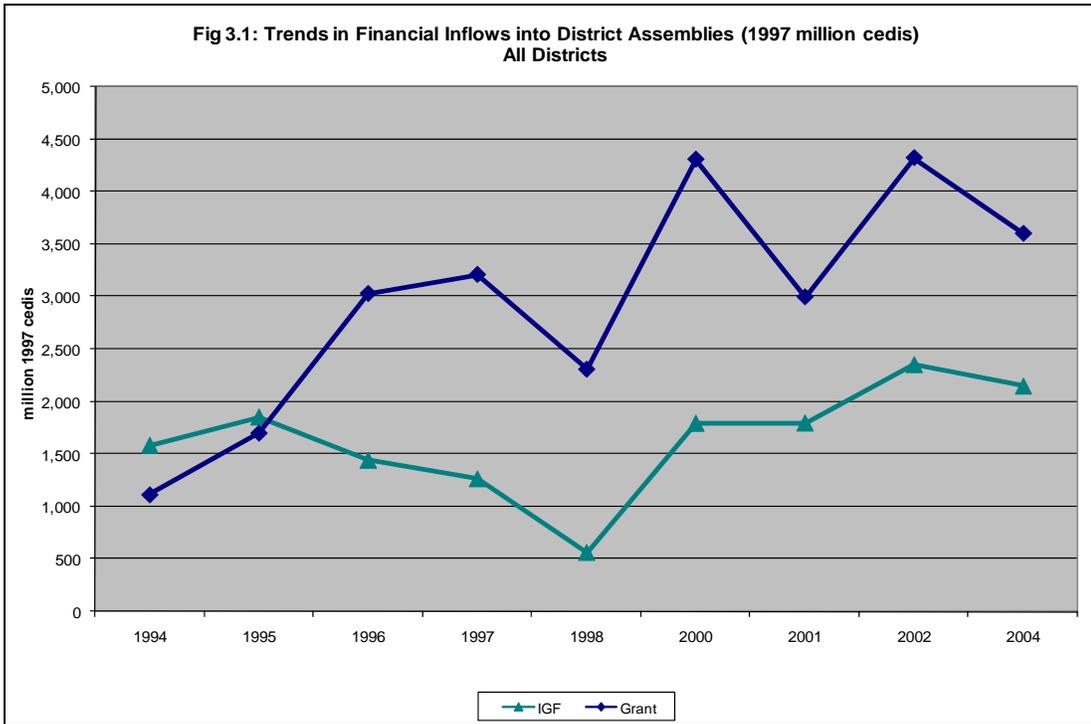
Source	Metropolitan Assemblies	Other Regional Capitals	Districts with no urban locality	All Districts
<i>Internally Generated Funds o/w</i>				
Rates	10.2	4.0	1.2	7.7
Lands	1.2	0.9	2.7	2.1
Fees & fines	13.8	4.1	2.4	10.5
Licenses	8.6	2.8	0.5	6.1
Rent	1.7	0.9	0.1	1.3
Investment	0.8	1.5	1.7	1.0
Miscellaneous	3.8	3.6	0.6	3.0
<b>Sub-total</b>	<b>40.2</b>	<b>17.9</b>	<b>9.2</b>	<b>31.8</b>
<b>Grant</b>	<b>59.8</b>	<b>82.1</b>	<b>90.8</b>	<b>68.2</b>
Total	100.0	100.0	100.0	100.0

Source: Computed from District Assemblies' Trial Balances, MLGRD: 1994-2004

Generally IGF constitutes just over 30% of total funds DAs use to run local government activities they handle. As was the case in section 2 for expenditures, the dominance of grants in funding activities varies over time and across districts.

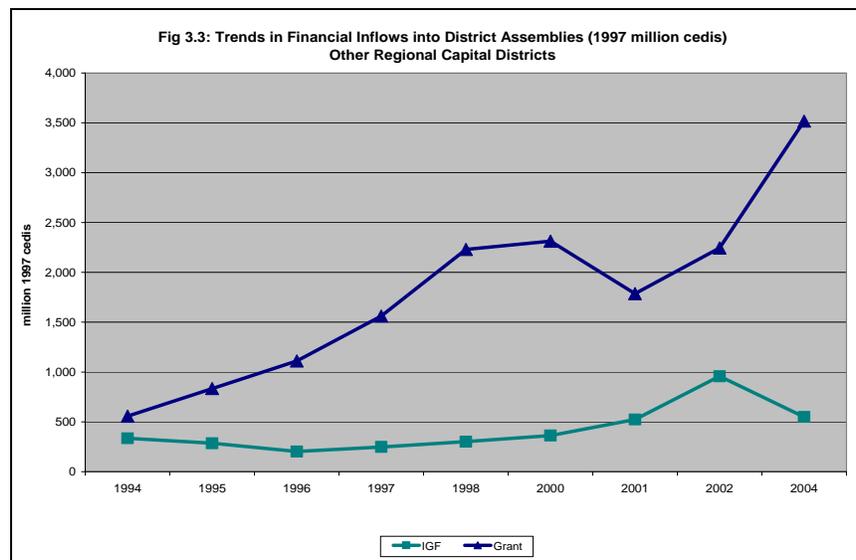
From Figure 3.1 we observe that for most of the period, i.e. 1996 to 2004, IGF was lower than grants in all the districts. However, prior to this period, IGF were higher than grants although both were at significantly low levels. With regards to trends in these financial sources, Figure 3.1 reveals that they both display similar patterns over the period of the study. After the decline in 2001, both sources of funds have seen a rising trend.

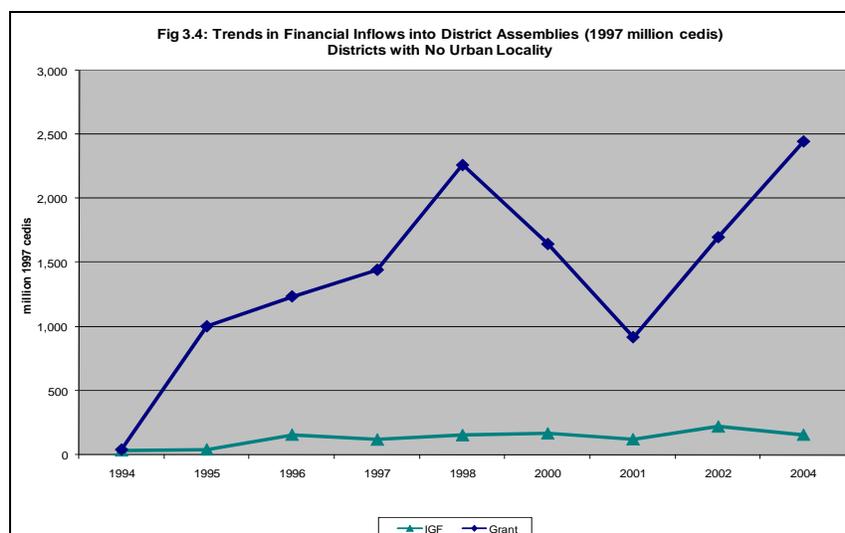
For districts which are mainly metropolitan assemblies the picture is not entirely different from the general picture. IGF sources generated greater inflows than grants until 1995 when average funds from grant increased more than the funds from IGF. Although there is a general increase in both sources for metropolitan districts over time, average inflows from grants peaked in 2000, declined and rose again in 2002 but have since then declined to levels lower than inflows from IGF in 2004. The biggest increase in both sources was observed between 1998 and 2000 (Figure 3.2).



Among districts which also serve as regional capitals, average grants have been higher than IGF sources for all the study period. For both income sources, there was a gradual increase between 1994 and 2000. Grants dipped a little from 2000, but by 2004 there was a rapid increase far outpacing IGF which had started to decline slightly (Figure 3.3).

For the districts with no urban locality, the gap between average grants and average IGF was higher for almost all the study period except for 1994. Growth in IGF was fairly stable over the period but grant sources had variations in growth rates from period to period. For instance between 1995 and 1997, and 1998 and 2001 there were declines in the average level of grant received from districts with no urban locality. From 2000 to date however, average figures from grant have increased sharply (Figure 3.4).





### 3.1 Components of Internally Generated Funds (IGF)

Trends in IGF have also been analyzed within the three district categories. Key sources of internally generated funds are composed of rent, licenses, land, rates, fees and miscellaneous sources of funds. Average percentage shares of these sources in total IGF (1994 to 2004) are computed and plotted over time (Table 3.2 and Figures 3.5 to Fig 3.7). Revenue from rates is made up of such payments as development levies and property rates. Permits, application for building permits and renewals among others constitute revenue from land. For fees and fines, items include funds from court fines, market tolls and slaughter house fees.

Table 3.2: Average Shares of District Assemblies Total Internally Generated Funds (%)

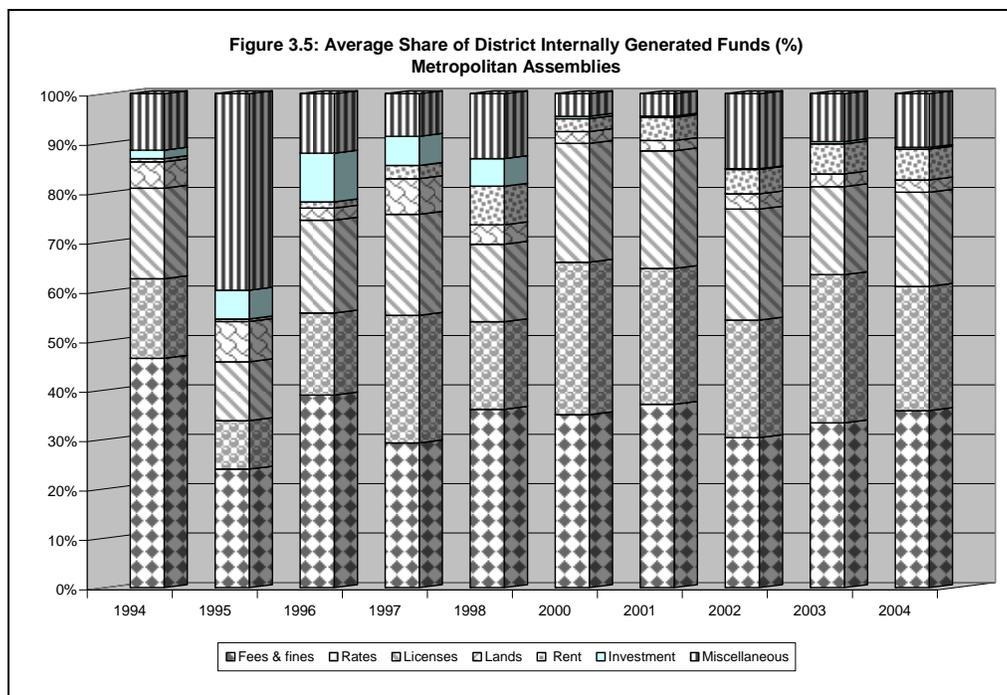
Source	Metropolitan Assemblies	Other Regional Capitals	Rural Districts	All Districts
Rates	23.6	20.8	14.0	25.0
Lands	3.7	15.3	29.5	6.4
Fees & fines	34.0	21.8	26.6	33.9
Licenses	19.7	13.8	5.1	18.8
Rent	3.9	4.9	1.2	4.3
Investment	2.2	7.6	16.8	1.8
Miscellaneous	12.9	15.9	6.8	9.9
Total	100.0	100.0	100.0	100.0

Source: Computed from District Assemblies' Trial Balances, MLGRD: 1994-2004

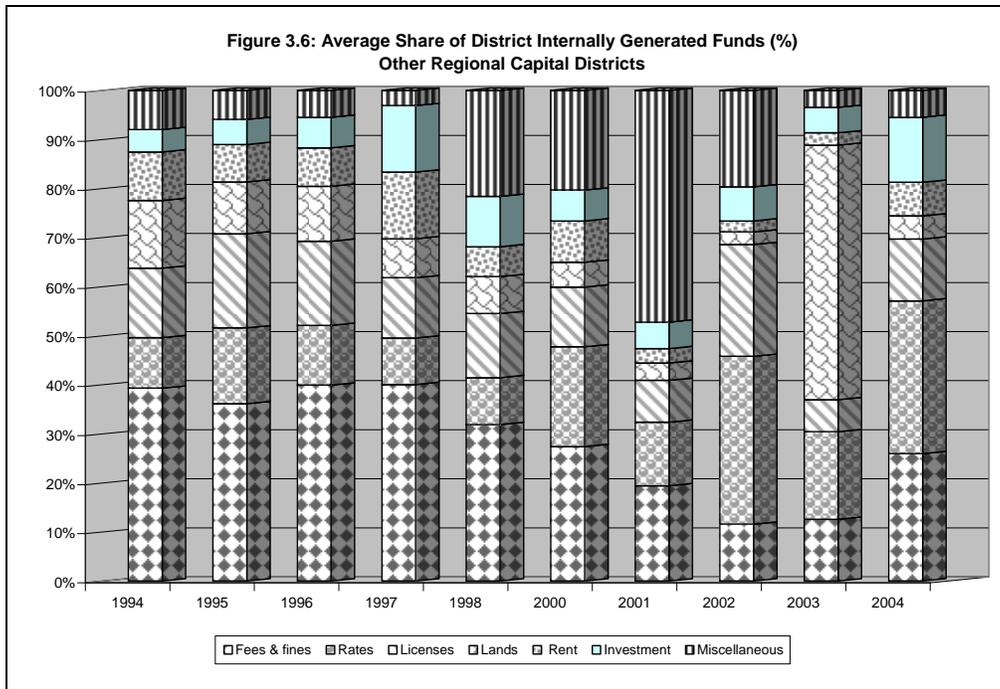
For all districts, fees and fines formed the biggest component of the IGF (33.9%). A close inspection of the other components of IGF reveals that average revenues from these sources also differ by size of the district and over time, reflecting different economic potential of the districts over time. Whereas, the more populous districts derive more revenue from

fees, fines, rates and licenses, the rural districts in particular have received relatively more revenue from lands and what is termed as investment, which includes returns from bank interests on unused DACF money and collection of tolls from assembly's micro-projects like public toilets.

Trends in the components of IGF were also analyzed separately for metropolitan district assemblies and other group of districts over time. The components of IGF in metropolitan districts display similar patterns. They generally have an upward trend. However, there are a few differences, especially between 2003 and 2004. The average revenues obtained from fees and fines, rents and miscellaneous expenditure all increased over the period 2003 to 2004 while all other components saw a decline on the average (Figure 3.5).

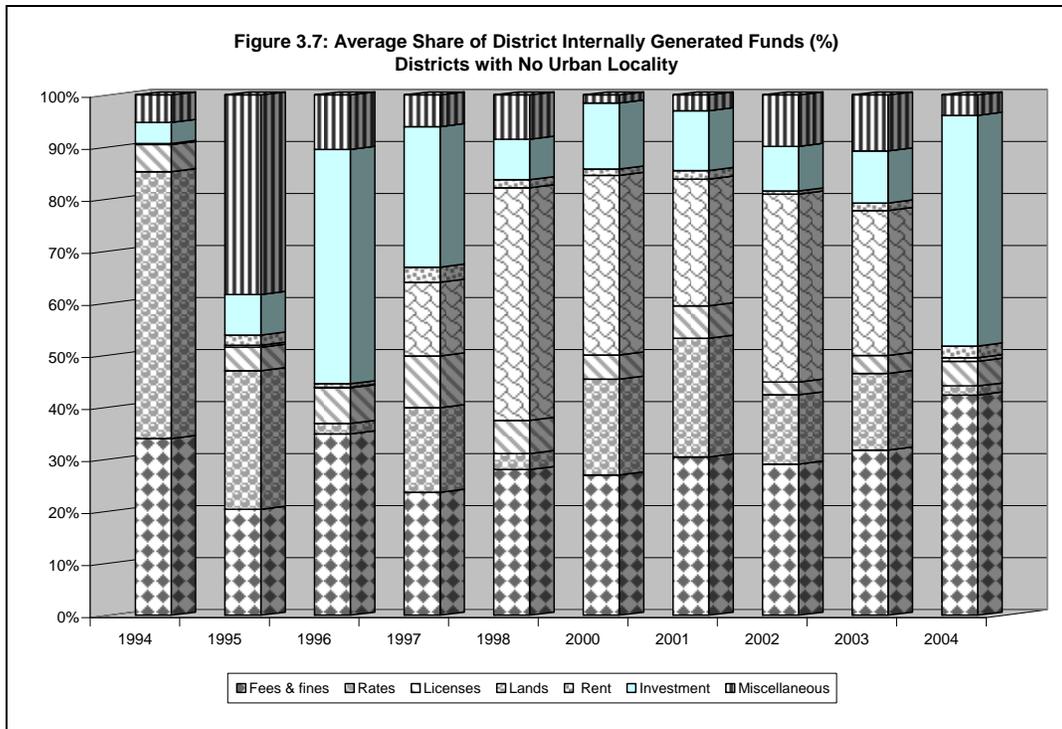


For districts, which serve as other regional capitals, Figure 3.6 shows that between 1997 and 1998, revenues from all the components of IGF increased substantially as compared to the years before and after this period. Whereas fees and fines dominated most of the time, over the study period, there were periods when other components were rather higher. For example in 2002, average revenue from rates was higher than all other components of IGF.

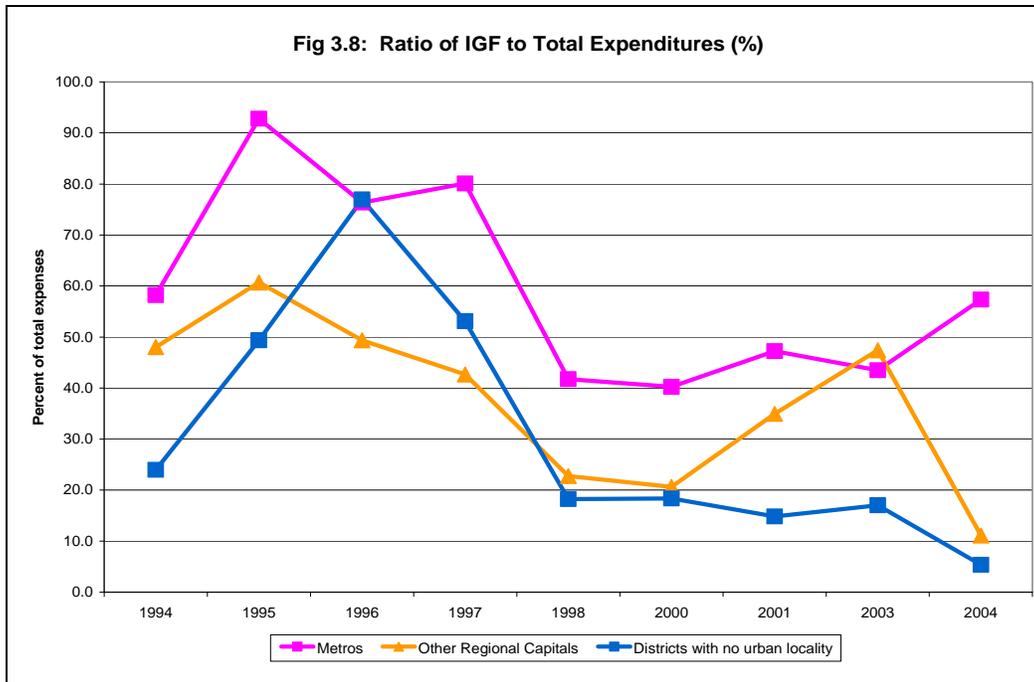


For districts with no urban locality, Figure 3.7 shows that average revenue from land were very high for most of the periods especially between 1998 and 2003. Most likely, this picture reveals the period the districts concerned gave out natural resources for extraction and it will be educative to know the nature of the resources and how the rents were used to either regenerate the resource base (i.e. engage in intergenerational investment) or used for current consumption. It was difficult for the team to explain such observations because of the sources of the available data. Further studies should throw more light on this varying performance of district assemblies' revenue generating capacities for further analysis.

Again, analyses of the trends further show that with the exception of fees and fines, and investments, between 2003 and 2004, average shares of total revenue obtained from most components of IGF declined to single digits. Compared to the other category of districts, it appears that the average revenues received in districts without urban localities lag far behind the other districts (see Figures 3.2 to 3.4).



Quoting in 1997 constant prices, the average funds generated internally range from less than 100 million cedis in 1994 to about 250 million cedis in 2004. This information translates to an abysmal reduction of the ratio of IGF to total expenditures between 1994 and 2004 (Figure 3.8) – from 24.0% in 1994 to 5.4% in 2004. This situation dominates despite the fact that there were periods when IGF sources could cover more than half of total expenses for such DAs (between 1996 and 1997). Rural district assemblies are not adequately organized to raise revenue for their development activities but in times of delayed transfer from the center, they could use such funds to facilitate development activities. Indeed this comment is also true for all the DAs,



### 3.2 Components of Grant Received by District Assemblies

There are several points where resource flows to the district level can be traced directly to the central government. They include the Ministry of Local Government, Environment and Rural Development; the Ministry of Finance and Economic Planning and the District Assemblies Common Fund.

The local government ministry covers the emoluments of district assembly personnel, and also allocations to some items in the 2-4 expenditure categories (Administration, Service and Investment). Sometimes the ministry disburses specific grants to DAs, such as the waste management grant to the metropolitan assemblies. Resources from the finance ministry are generally referred to as central government transfers. They include the HIPC funds and other ceded revenues. The main central government transfer to DAs for development activities, which is DACF, is however transferred to the districts through the Common Fund Administrator. Central government also indirectly channel resources to DAs through sector wide programmes.

Programmes and projects are undertaken by different sectors, particularly the decentralised departments with budget from the respective MDAs and donors. Also there are donors and other NGOs with projects in districts whose financial information are not captured

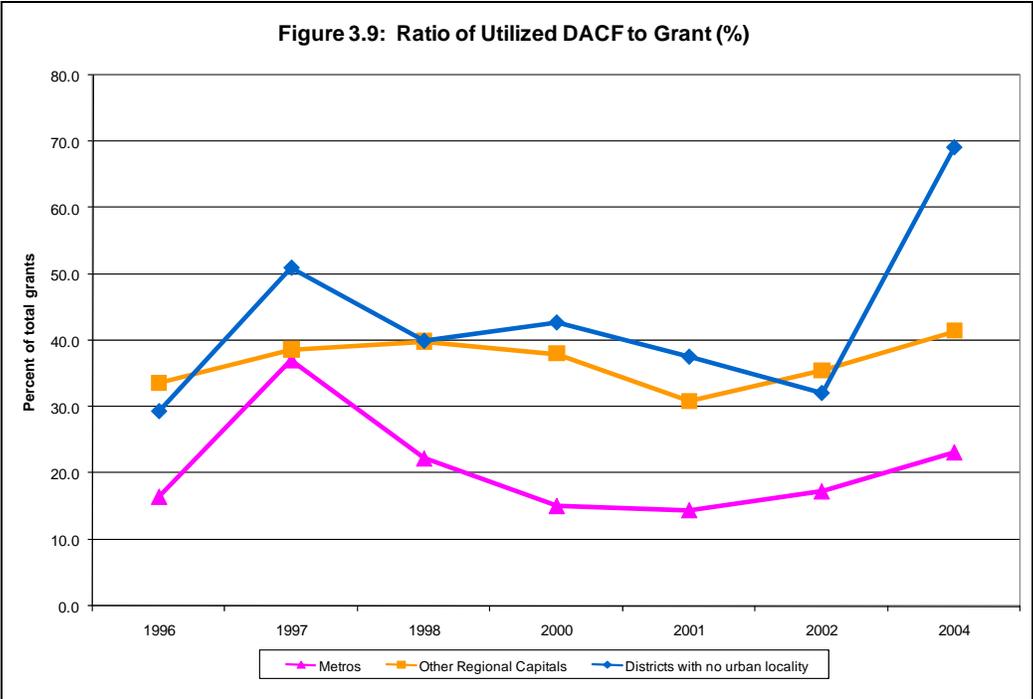
by the official districts financial data (ISSER and CEPA 2004)<sup>5</sup>. The concentration of such resources in particular districts will affect development of the districts significantly. However, these resources from MDAs to the districts, which do not pass through the accounts of DAs, are not captured by the District.

We have therefore in this paper related utilized DACF to total grant inflows, as recorded by DAs, to assess the extent to which the DAs rely on DACF. We avoided using releases of DACF for annual analysis because sometimes such releases relating to certain years are only received in later years, completely distorting across time comparisons.

Figure 3.9 shows the relationship between utilized DACF and total amount received by DAs as grants for different groups of districts. With the exception of the year 1996 and year 2002, the amount of money utilized from the common fund by the rural DAs was generally around or well above 40% of their total grant inflows. The ratios for other regional capital districts, other than Metropolitan Assemblies, were well over 30% for most of the times, rising to almost 40% of total grant inflows. The fact that resources from grant sources constitute more than 80% of total inflows for these DAs (Table 3.1) show that they are heavily dependent on grants, and this has serious implications for sustainability or timely execution of development programmes. The DAs will find it extremely difficult to operate if resources from this source are delayed for any particular reason; the activities of the districts will virtually come to a halt.

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<sup>5</sup> Inflows for some donor projects (such as the EU, CIDA, DANIDA, UNICEF, GTZ/kfw, AFD, JICA, DFID, USAID) are captured in DAs' accounting framework through the grant sub-component, which also includes funds from the HIPC relief and NGOs.



It is also discernable from Figure 3.9 that the metropolitan assemblies have been able to attract grants from other sources apart from the common fund as compared to the receipts for other districts. Without adequate information on the quantum of grant from other sources, it could be speculated that these other resources (over 80% for most times) either come in the form of central government transfers to finance relatively bigger size of government or they represent donor funds meant for projects that require higher counterpart funds.

## **4. STATUS OF SOCIO-ECONOMIC INDICATORS AT THE DISTRICT LEVEL**

### **4.1 Introduction**

Even though the research team has as of now not firmed up a conceptual framework or an analytical framework to use, an attempt is made in this section to assess whether the use of funds by the DAs has any effect or association with human development in the districts.

Receipts from the DACF by law should go into expenditures directed according to the guidelines of the DACF and also according to the district's development plan which must have been prepared in line with central government policy (now GPRS II). DAs' spending in general are therefore used on the following broad items:

- ❖ Basic infrastructure for district administration;
- ❖ Health;
- ❖ Education;
- ❖ Water and sanitation; and
- ❖ Poverty alleviation - revolving fund disbursed as credit to self-employed and Small and Medium Scale Enterprises (SMEs).

We have therefore used four sets of indicators on education and health for this preliminary analysis. They are adult and youth literacy rates, gross and net primary school enrolment ratios, junior secondary school (JSS) enrolment ratios, and access to health care facilities, use of safe drinking water and use of safe sanitation facilities. Changes in these indicators are computed from datasets gathered from CWIQ1997 and CWIQ2003 and analyzed using regression methods. The choice of these indicators is solely based on availability of data that are disaggregated to the district level.

We also used the poverty data generated by the National Development Planning Commission (NDPC) and the Ghana Statistical Service (GSS) to provide district-wide poverty mapping. These poverty rates are derived more or less from most of the indicators mentioned above and captured in the 2000 Population and housing Census based on coefficients derived from the 1998/99 Ghana Living Standards Survey (GLSS4). Even though the poverty rates serve as good composite indices to rank the districts, our initial analysis shows clearly that one needs detailed sector-wide indicators to fully understand the relationship between public spending and poverty at the local level.

We applied various econometric specifications to the data on public spending as measured in this report for the period before 2000 to analyze the variations in the district

poverty rates, which pertain to the year 2000. Various lag lengths for the expenditure variables were used, some of them were statistically correlated to poverty rates but most of them had the wrong signs and had little policy interpretation value. An example of our initial attempts to examine the extent to which these financial inflows, and for that matter public spending influence development outcomes is presented in Appendix 1. The results point to specification difficulties one may encounter with the use of insufficient information in such analysis. We have therefore only presented them as summary tables to reflect at least the degree of correlation or association between public spending and development outcomes, without inferring any causation at this stage.

## 4.2 Changes in Socio-Economic Indicators at the District Level

Table 4.1 presents the situation in all the 110 districts for 1997 and 2003 for development outcomes on education and health<sup>6</sup>. The literacy rates are measured for adults aged 15 years and above and for the youth aged between 15 and 24 years on their ability to read and write either a Ghanaian Language or English Language. Different sets of education-related indicators are defined separately for females to mainstream gender in the analysis.

Table 4.1: Changes in Socio-Economic Indicators between 1997 and 2003

Development Indicator	All districts			Districts in Northern Ghana		
	1997	2003	No. of districts with improved condition	1997	2003	No. of districts with improved condition
Adult literacy ratio	47.9	52.6	62	18.8	22.7	16
Female adult literacy ratio	36.2	41.1	62	12.5	14.7	19
Youth literacy ratio	61.7	67.8	70	34.0	39.9	17
Female youth literacy ratio	53.4	60.9	66	28.3	33.2	19
Gross primary enrolment ratio	97.9	108.6	74	60.0	80.0	20
Gross girls primary enrolment ratio	95.6	111.3	76	53.8	84.4	23
Net primary enrolment ratio	73.1	71.3	35	43.3	51.3	20
Net girls primary enrolment ratio	72.5	71.4	29	40.9	51.8	18
Gross JSS enrolment ratio	75.9	70.8	35	50.3	40.2	7
Gross girls JSS enrolment ratio	69.9	66.7	28	47.6	34.2	5
Net JSS enrolment ratio	37.4	26.8	18	19.7	10.4	2
Net girls JSS enrolment ratio	36.6	27.2	9	19.6	9.7	1
Access to clinic/hosp in 30min	42.0	59.2	78	23.8	33.0	14
Use of safe drinking water	66.4	74.0	72	60.4	66.8	14
Use of safe sanitation facilities	26.4	52.8	81	10.8	18.1	14
N			110			24

<sup>6</sup> Health is broadly defined to include water and environmental sanitation

*Source: Computed from CWIQ1997 & CWIQ2003*

Access to health care facilities is defined for households who are within 30 minutes of travel to a clinic or hospital. Drinking water is defined as safe for the household if it is collected from the following sources; piped into dwelling or compound, public outdoor tap, borehole and protected well. Sanitation facility is also defined as safe if a household mainly uses either flush toilet to sewer or ventilated improved pit latrine. The computation of proportions and changes in the proportions during the period is weighted by size of the districts, where size is defined by population of the districts as captured in 2000 population and housing census.

The results show that a number of the districts recorded improvement in some of the indicators but a significant number also had worsened situation during the period of study. Most of the positive changes were observed for health related indicators, primary school enrolment for both girls and boys and for changes in literacy rates, particularly for the youth. Over 70 out of the 110 districts in the country experienced improved conditions for majority of the above dimensions of development indicators.

However, the districts' conditions concerning improvement in JSS enrolment were not encouraging during the period of study. Most of them could not significantly improve enrolment; less than 40 out of the 110 districts experienced improved changes for both males and females in junior secondary schools. Districts in the three northern regions have low levels apart from changes in primary school enrolment, where the regions' improvements were remarkably higher than the rest (Table 4.1).

Table 4.2 looks at the changes in the socio-economic status of the separate groups of the districts that have received various degrees of focus in the report between 1997 and 2000. As it is the case for other districts in general, the districts made great strides in improving enrolment at the lower levels of education and youth literacy. The challenge they face is how to ensure that children start primary school at 6 years and complete at least nine years of basic education.

Table 4.2: Changes in Socio-Economic Indicators between 1997 and 2003 (cont'd)

Development Indicator	Metropolitan Assemblies			Other Regional Capitals			Districts with no Urban Locality		
	1997	2003	No. of districts with improved condition	1997	2003	No. of districts with improved condition	1997	2003	No. of districts with improved condition
Adult literacy ratio	67.6	78.1	3	62.2	70.0	8	23.9	27.4	3
Female adult literacy ratio	58.1	69.2	3	52.6	60.9	8	14.0	18.5	3
Youth literacy ratio	75.3	87.2	3	72.4	81.7	7	43.1	49.3	3
Female youth literacy ratio	69.8	83.0	3	66.8	77.4	7	35.7	46.1	3
Gross primary enrolment ratio	103.5	117.1	3	98.3	112.0	8	86.7	107.8	3
Gross girls primary enrolment ratio	104.7	118.4	3	97.9	114.0	10	83.5	105.3	3
Net primary enrolment ratio	81.7	82.1	1	76.5	77.3	4	63.1	70.5	3
Net girls primary enrolment ratio	83.7	82.1	1	77.1	77.0	4	64.8	67.3	3
Gross JSS enrolment ratio	82.8	92.6	3	83.3	85.6	5	55.0	50.8	3
Gross girls JSS enrolment ratio	79.2	94.3	2	79.0	85.3	4	48.3	50.5	2
Net JSS enrolment ratio	48.0	44.1	1	45.5	38.4	2	26.7	16.6	2
Net girls JSS enrolment ratio	49.2	46.0	1	46.1	39.9	1	26.7	16.7	0
Access to clinic/hosp	71.4	81.9	3	62.3	74.7	7	15.3	23.4	3
Use of safe drinking water	98.6	98.1	1	92.3	93.6	4	82.7	86.6	3
Use of safe sanitation facilities	48.0	87.9	3	40.5	75.6	9	3.4	11.7	3
N			3			10			4

Source: Computed from CWIQ1997 & CWIQ2003

If the rate of increase in school enrolments is maintained the Millennium Development Goal (MDG) target of universal primary education by 2015 can be realized. However, a threat to the attainment of this goal is the late entry into primary school that is reflected in the wide variation between gross enrolment and net enrolment ratios. This is a threat because if children start school late they are likely not to complete primary education. It is particularly a high risk for girls in rural areas who when they reach the age of puberty may be under great pressure to be married off.

The rural districts' adult literacy rates are low. This is not unexpected given the high proportion of the adult population that have either never attended school or only completed primary education in such areas. The substantially higher literacy rate amongst the youth is evidence of the surge in school enrolment that has occurred in recent years. Literacy rates are higher amongst the urban population. Rural women are particularly disadvantaged compared to men and urban women. This makes progress towards the MDG target of reducing gender gap on youth literacy quite difficult unless efforts to enroll more girls in schools higher than the primary level are pursued in earnest.

Another area of development where the rural districts are particularly disadvantaged is in the area of health, reflected in the low geographical access to modern health care facilities and use of unsafe sanitation facilities. Even though the citizenry experienced remarkable improvement in the metropolis and the other regional capitals significant proportion of the population in the rural districts lack access to these important basic necessities and more efforts will have to be channeled to address this issue despite the positive improvements observed during the period.

## 5. CONCLUSION

In this report, we have assessed the income and expenditure patterns at the district level, as an initial attempt to analyze the trends in public spending at the lower levels of governance in Ghana. The components of and trends in expenditure and revenues were analyzed by describing their time profiles over the period 1994 to 2004. The status of socio-economic indicators, mainly on education, literacy and access to health and environmental sanitation in the districts is discussed in the report. The indicators refer only to the years 1997 and 2000 because these were periods when district level data for such indicators are available. Attempts to use regression methods to identify linkages between expenditures and development outcomes were also made but the analysis require more work in the future when richer data set is made available.

The main sources of data were district assemblies' trial balances from the Controller and Accountant Generals Department, data on releases and utilization of resources from the District Assemblies' Common Fund (DACF) as well as information on key welfare indicators including health, education, water and sanitation. The welfare indicator variables were obtained from the datasets gathered from the two Core Welfare Indicators Questionnaire surveys conducted by the Ghana Statistical Service. The data from the trial balances were obtained through the assistance of IFPRI office in Accra.

As also observed in the national level report, we find that personnel emolument form the highest component of recurrent expenditures, accounting for about 27.5% of total expenditures by Metropolitan Assemblies. For all districts, capital expenditure forms about 45.2% of total expenditures with large degree of variation between districts and over time. It appears that the more rural the districts are, the higher the levels of capital expenditures and vice versa. For example, capital expenditures for districts with no urban locality constitute 79% of total expenditures. Such differences in spending patterns may reflect differential development needs of the districts and also portrays differences in the caliber of personnel and the size of government at the district level. The results also show that the average ratios of utilized resources from the common fund to total capital expenditures have since 1998 been declining remarkably. Indeed in real terms, the level of DACF utilized by the DAs has remained unstable and has been declining for some districts.

Generally IGF constitutes just over 30% of total funds district assemblies use to run local government activities they handle. As is the case for expenditures, the dominance of grants in funding activities varies over time and between districts; the average shares of grants in rural districts form about 90% of total inflows into those district assemblies' financial system, whilst those for bigger districts like metropolitan assemblies represent about 60%. It is also important to note that resource flow into the district assemblies (particularly from grant

sources and through IGF for metropolitan assemblies) have seen upward trends after 1998. However, over the years, it has become clear that most of the DAs are heavily dependent on DACF. We note that this has serious implications for the timely execution of development programmes.

The analysis shows that over 70 out of the 110 districts in the country experienced improved conditions for majority of development indicators measured over the period of study. The results also show that high levels of basic education expenditures are associated with improved changes in female enrolment. High levels of per capita recurrent expenditures are also associated with improved changes in gross JSS enrolment for females whilst DAs expenses on other development activities, apart from health and education are associated with low or negative changes in adult female or youth literacy rates, and the use of safe sanitation in the districts.

The findings in the report may not be that conclusive because programmes and projects undertaken by different sectors, particularly decentralised departments with budget from MDAs, impact on development of the districts significantly. These resources from MDAs to the districts, which do not pass through the accounts of DAs are not captured by the report. We analysed the small proportion of total government expenditures (between 4.0% and 6.5%) and efforts to increase knowledge of the process and of a significant part of total inflows and outlays will help in a long way to explain this important relationship between public spending and development.

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## APPENDIX 1: An Attempt to Explain the Relationship between Development Outcomes and District Assemblies' Spending

This appendix section examines the extent to which financial inflows to DAs, and for that matter public spending on these activities by the DAs have led to the current situation. We employed a simplified regression model that relates current levels of the indicators to various types of expenditures and the districts' ability to raise funds internally, conditioned by the situation in 1997 and other location attributes.

This model tries to indirectly analyze changes in development indicators between 1997 and 2003 using total public resources expended by DAs within that period. We have two data points for the dependent variables but the independent variables have values for all the years in the period. We accumulated the independent variables data points and analyzed to show whether total spending on various items correlate with the changes in development outcomes. Different econometric specifications were tried, some using the lags of the independent expenditure variables to explain the two points. Once again the results (not shown here) had little policy interpretation value. The model is stated as follows:

$$y_{2003} = \alpha_0 + \alpha_1 y_{1997} + \alpha_2 X + \alpha_3 C + \varepsilon$$

where  $y_{2003}$  represents indicators measuring different dimensions of development in 2003 as explained above and  $y_{1997}$  represents the situation of the indicators in 1997. The independent variables in the model are various expenditure variables expressed in per capita terms; accumulated health expenses financed by DACF (including expenses on water and sanitation), accumulated basic education and secondary expenditures financed by DACF, other accumulated capital expenditures and recurrent expenses. The other control variable (also measured in vector C) measures the average ratio of IGF to total expenditures, indicating the extent to which a DA is able to finance its activities using internal sources of funds. Adult literacy rate in 1997 was also used as control variable for non-literacy models to account for other initial conditions that are not captured by  $y_{1997}$  in those equations.

The estimated model is presented in Tables 4.2 to 4.5. All the models are statistically significant with relatively high R-squared values observed because of the seemingly lagged dependent variables on the right hand side. The summary findings on the patterns of relationship is that per capita expenditures on health and secondary school education accumulated over the period are not related to any of the changes in the development indicators. Accumulated per capita expenditures for basic education positively affects gross and net primary enrolment for girls. The results also show that high levels of per capita recurrent expenditures are associated with improved changes in gross JSS enrolment for females whilst DAs' expenses on other development activities, apart from health and education are associated with low or negative changes in adult female or youth literacy rates, and the use of safe sanitation in the districts.

We have tried not to explain this relationship because of the preliminary nature of the data gathering process. There is a need to conduct in-depth or use other qualitative methods for clearer understanding of the findings, especially those that suggest rather counter-intuitive relationship like the one between expenses on other development activities and almost all of the development indicators.

Table A1.1: Relationship between Public Spending and Adult and Youth Literacy Rates

Female	Adult All	Adult Female	Youth All	Youth
	b/se	b/se	b/se	b/se
Per Capita Health Expd (4.339)	-0.507 (2.896)	1.636 (2.918)	-0.843 (3.716)	0.941
Per Capita Basic Educ Expd (2.645)	0.140 (1.573)	0.486 (1.454)	-0.025 (2.485)	0.470
Per Capita Sec Educ Expd (5.363)	-1.586 (3.280)	-4.993 (3.139)	-1.063 (3.789)	-3.441
Per Capita Other Dev't Expd 0.873*** (0.256)	-0.277 (0.177)	-0.376* (0.159)	-0.512* (0.234)	-
Per Capita Recurrent Expd 0.731* (0.332)	0.432* (0.210)	0.515 (0.262)	0.570* (0.229)	
Ratio: IGF to Total EXPD (6.387)	2.479 (3.954)	0.568 (3.775)	0.294 (6.269)	1.472
Metropolitan Assembly in 2000 (5.352)	9.603* (4.568)	10.444* (4.797)	9.730* (4.554)	10.194
Rural District (5.564)	-1.984 (4.657)	-1.279 (3.910)	-1.782 (6.453)	1.493
adult literacy rate,1997 0.738*** (0.064)	0.855*** (0.038)			
female adult literacy rat~1997		0.866*** (0.046)		
youth literacy rate,1997			0.733*** (0.058)	
female youth literacy rat~1997 0.738*** (0.064)				
Constant 19.163*** (3.546)	8.880*** (1.948)	7.394*** (1.774)	20.823*** (3.652)	
R-squared	0.819	0.789	0.673	0.625
N	110	110	110	110

Note: \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

Table A1.2: Relationship between Public Spending and Primary School Enrolment Rates

Female	Gross All	Gross Female	Net All	Net
	b/se	b/se	b/se	b/se
Per Capita Health Expd (3.309)	-4.685 (3.777)	-3.266 (4.535)	-3.914 (2.552)	-2.921
Per Capita Basic Educ Expd 4.330* (1.659)	3.518 (2.191)	6.874** (2.594)	2.653 (1.342)	
Per Capita Sec Educ Expd (3.337)	1.968 (3.803)	-2.466 (4.935)	0.897 (2.321)	-1.289
Per Capita Other Dev't Expd (0.275)	-0.225 (0.427)	-0.612 (0.404)	0.022 (0.296)	-0.137
Per Capita Recurrent Expd (0.184)	0.354 (0.248)	0.300 (0.273)	0.029 (0.167)	0.019

Adult literacy rate,1997 0.327***	0.453*** (0.103)	0.482*** (0.115)	0.285*** (0.061)	
(0.073)				
Ratio: IGF to Total EXPD (3.334)	-0.722 (3.648)	2.041 (4.965)	5.140 (2.951)	5.915
Metropolitan Assembly in 2000 (4.497)	-1.731 (6.553)	-1.889 (6.190)	2.372 (4.491)	2.168
Rural District 7.054*	6.382 (4.491)	10.195 (6.617)	5.645* (2.713)	
(3.238)				
gross primary,1997	0.382*** (0.086)			
female gross primary,1997		0.358*** (0.080)		
net primary,1997			0.346*** (0.066)	
female net primary,1997 0.292***				
(0.072)				
Constant 30.982***	51.955*** (7.839)	49.327*** (6.911)	29.625*** (4.750)	
(4.504)				
R-squared	0.547	0.567	0.629	0.600
N	110	110	110	110

Note: \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

Table A1 . 3: Relationship between Public Spending and JSS Enrolment Rates

Female	Gross All	Gross Female	Net All	Net
	b/se	b/se	b/se	b/se
Per Capita Health Expd (2.930)	-0.159 (3.811)	-1.530 (4.621)	-2.077 (2.318)	-2.756
Per Capita Basic Educ Expd (1.598)	1.966 (2.257)	3.155 (2.651)	0.553 (1.216)	1.766
Per Capita Sec Educ Expd (3.144)	1.029 (3.769)	-0.380 (5.179)	0.089 (2.533)	-0.780
Per Capita Other Dev't Expd (0.161)	-0.231 (0.378)	-0.415 (0.315)	-0.222 (0.142)	-0.192
Per Capita Recurrent Expd (0.257)	0.492 (0.330)	0.647* (0.283)	0.183 (0.213)	0.002
Adult literacy rate,1997 0.421***	0.850*** (0.109)	0.978*** (0.110)	0.283*** (0.048)	
(0.055)				
Ratio: IGF to Total EXPD 9.118**	6.922 (4.623)	5.491 (5.311)	7.879** (2.779)	
(3.175)				
Metropolitan Assembly in 2000 8.522*	4.890 (5.136)	9.286 (4.900)	8.232** (3.066)	
(4.135)				
Rural District (3.310)	0.522 (5.984)	6.578 (5.926)	3.324 (2.001)	3.760
gross JSS enr1,1997	0.112 (0.063)			
female gross JSS enr1,1997		0.025 (0.076)		
net JSS enr1,1997			0.256*** (0.059)	
female net JSS enr1,1997				0.070

(0.067)				
Constant	16.548***	12.948**	-0.450	-0.153
	(3.575)	(4.357)	(1.584)	
(1.817)				
R-squared	0.668	0.626	0.640	0.571
N	110	110	110	110

Note: \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

Table A1.4: Relationship between Public Spending and Health Related Indicators

	Access to Clinic/H b/se	Use Safe water b/se	Use Safe Sanitation b/se
Per Capita Health Expd	-0.567 (5.532)	-1.514 (5.230)	-1.691 (5.665)
Per Capita Basic Educ Expd	5.957* (2.794)	4.011 (2.868)	-1.574 (2.872)
Per Capita Sec Educ Expd	-10.114 (5.305)	-5.010 (4.470)	-1.120 (6.258)
Per Capita Other Dev't Expd	-0.912 (0.488)	0.642 (0.527)	-0.950* (0.406)
Per Capita Recurrent Expd	0.259 (0.458)	-0.260 (0.629)	0.660 (0.513)
Adult literacy rate,1997	0.527*** (0.101)	0.242* (0.100)	0.707*** (0.103)
Ratio:IGF to Total EXPD	-1.878 (7.051)	-8.225 (6.272)	1.926 (6.439)
Metropolitan Assembly in 2000	1.526 (5.045)	5.096 (2.906)	13.518* (5.760)
Rural District	-16.285** (5.403)	4.161 (5.998)	-5.754 (5.588)
access to clinic/hosp,1997	0.403*** (0.099)		
use of safe water,1997		0.521*** (0.060)	
use of safe sanitation,1997			0.407** (0.130)
Constant	18.607*** (4.836)	28.691*** (5.997)	7.259 (3.847)
R-squared	0.479	0.439	0.600
N	110	110	110

Note: \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

## **APPENDIX 2: Revenue of Local Government Bodies**

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- 1 Entertainments Duty under the Entertainments Duty Act, 1962 (Act 150)**
- 2 Casino Revenue Under Casino Revenue Tax Decree, 1973 (N. R. C. D. 200)**
- 3 Betting Tax Under the Betting Tax Act, 1965 (Act 268)**
- 4 Income Tax (Registration of Trade, Businesses, Profession or Vocation) Law 1986 (P.N.D.C.L. 156)**
- 5 Gambling Tax under Gambling Machines Decree, 1973 (N.R.C.D, 174)**
- 6 Rates and Levies**
  - a. Levies on crops other than cocoa, coffee, cotton and sheanuts
- 7 Fees**
  - a. Conservancy
  - b. Slaughter House
  - c. Cattle Pounds
  - d. Market Dues
  - e. Market Stalls/Stores
  - f. Lorry Park Dues
  - g. Advertisements
  - h. Trading Kiosks
  - i. Restoration of Conservancy Service
  - j. Graveyard Receipts
  - k. Bread Bakers
  - l. Chop Bars
  - M Corn Mills
  - n. Dressing Stations
- 8 Licenses:**
  - a. Dog Licenses
  - b. Hawkers
  - c. Extension of Hours
  - d. Hotel and Restaurants
  - e. Beer and Wine Sellers
  - f. Petroleum Installations
  - g. Palm-wine sellers
  - h. Akpeteshie Distillers/Sellers
  - i. Herbalists
  - j. Taxi Cabs
  - k. Births and Deaths
  - l. Lorry Parks Overseers
  - m Taxi Drivers (Drivers License)
  - n. Self-employed Artisans
  - o. Fishing Tolls
- 9 Taxes Chargeable on the income of the following categories of self-employed person**
  - a. Spare parts dealers
  - b. Chemical sellers
  - c. Tailors and dressmakers
  - d. Sandcrete blocks manufacturers
  - e. Musical spinners
  - f. Radio and television repairs
  - g. Gold and silver smiths
  - h. Drink bar operators
  - i. Professional photographers
  - j. Chop bar keepers and cooked food sellers
  - k. Butchers
  - l. Refrigeration and air conditioning workshop owners
  - M Hairdressers
  - n. Garage owners
  - o. Video operators
  - p. Corn mill owners
  - q. Co-operative distillers
  - r. Scrap dealers
  - s. Livestock breeders and traders
  - t. Traders; and
  - u. Liquor sellers

- 10 Miscellaneous**
- a. Town Hall/Community Center Receipts
  - b. District Hearse Hiring
  - c. Dislodging of Latrines
  - d. Hire of Bulldozers/Grader
  - e. Collection of Sand/Grave/Stone
  - f. Slot Machines
  - g. Stool Land Revenue
  - h. Toilets Receipts

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(Source: Sixth Schedule- Act 462, section 86)

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### **APPENDIX 3: Classification of Expenditure Items**

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- 1. PERSONNEL EMOLUMENTS**
- Established Posts*  
 Established Posts  
 Non-Established posts
- Non Established Post*  
 Contract Appointments  
 Daily Rated  
 Probation  
 Recruitment  
 Secondment  
 Other (specify)
- 2. ADMINISTRATION ACTIVITY EXPENSES**
- Utilities*  
 Electricity  
 Water  
 Telecommunications  
 Postal  
 Sanitation Charges  
 Armed Guard & Security  
 Fire Fighting Campaign
- Office Cleaning*  
 Cleaning Materials  
 Contract Cleaning
- Office Consumables*  
 Stationery  
 Refreshments  
 First Aid Materials  
 Other Office consumables  
 Head of State End of Year Activities
- Printing & Publications*  
 Contract Printing  
 Contract Photocopying  
 Purchase of Publications  
 Advertisements
- Rent*  
 Office Accommodation  
 Residential Accommodation  
 Rental of Office Equipment  
 Hotel Accommodation
- Travel & Transport*  
 Travel Allowance  
 Running Costs of Official Vehicles (POL)  
 Maintenance of Official Vehicles  
 Car Rental  
 Transfer Grants  
 Out Station  
 Running Cost of Presidential Aircraft  
 Running Cost of Fighting Vehicles
- Maintenance*  
 Driveways and Grounds  
 Minor Repairs of Residential Buildings

Minor Repairs of Office Buildings  
Maintenance of Furniture and Fixtures  
Maintenance of Equipment, Machinery and Plant  
Minor Repairs of Schools/Colleges  
Maintenance of Presidential Aircraft  
Maintenance of Fighting Vehicles

**Financial Charges**

Insurance and Compensation  
Bank Charges  
Contributions  
Refunds of Medical Expenses  
Audit  
Other Charges  
UN-Peace  
Overseas Medical Treatments

**Other Allowances**

Motorbike Maintenance Allowance  
Bicycle Maintenance Allowance  
Car Maintenance Allowance  
Overtime Allowance  
Guide Allowance  
Etc. etc...  
Other Allowance

**3 SERVICE ACTIVITY EXPENSES**

***Training & Conference Cost***

Training Materials  
Hire of Venue  
Hotel Accommodation  
Refreshments  
Tuition Fees (Courses, Seminars etc)

***Consultancy***

Local Consultants Fees  
External Consultants Fees  
Materials and Consumables

***Materials And Consumables***

Stationery  
Refreshments  
Uniform & Protective Clothing  
Household Items  
Rations  
School Textbooks/Library Books  
Chemicals and Consumables for School Laboratories  
Other Teaching / Learning Materials

National Awards

Printing and Publications

***Printing & Publications***

Contract Printing  
Contract Photocopying  
Purchase of Publications  
Advertisement

***Rent of Plant & Equipment***

Rent of Plant and Equipment

***Travel & Transport***

Night Allowance  
Local Travel Running Costs  
Mileage Allowance  
Local Hotel  
Foreign Travel Per Diem  
Foreign Travel Costs  
Credit Facilities  
Credit (grant)  
Nat. Health Insurance Scheme  
Exempt for aged, antenatal, under 5 years  
Refund for Med. Exp (Paupers/disease Category)  
Customs duty/Handling Charges

***Special Activities***

Special Operations (COS)  
Special Operations (NSC)  
Service of the State Protocol  
Official Celebrations  
Head of State End of Year Activities  
Special Operations (Peace Keeping)  
Special Operations (Docking of Ships)

***Construction Works***

Consultancy Fees  
Contractors Fees

**Compensation For Land**

Sanitary Facility only  
Access Roads Only  
New Buildings

***Rehabilitation***

Buildings  
Plant and Equipment  
Purchase of Plant, Equipment, Furniture and Vehicles

***Purchase Of Plant, Equipment, Furniture & Vehicles***

Purchase of Plant & Equipment  
Purchase of Vehicles  
Purchase of Furniture/Fittings  
Purchase of Motor Cycles, Bicycles & Life-jackets  
Purchase of Computers & Accessories

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*Source: Guidelines for the preparation of the 2002- 2004 Budget, Ministry of Finance October, 2001*