



Research Report No. 4

**DATA BASE DEVELOPMENT FOR
AN INTEGRATED SOCIAL
SECTOR MODEL**

SOCIAL POLICY AND DEVELOPMENT CENTRE

**DATA BASE DEVELOPMENT FOR
AN INTEGRATED SOCIAL
SECTOR MODEL**

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DATA BASE DEVELOPMENT FOR AN INTEGRATED SOCIAL SECTOR MODEL

1. INTRODUCTION

During an earlier phase of the CIDA commissioned work, an Integrated Social Sector Revenue and Expenditure Model was specified in which an attempt was made to identify linkages between the macro economy, resource availability of the relevant government units and social sector investment in the country. The model includes over 150 equation, as such the data requirements for estimating the model are substantial. The purpose of this report is to develop the data base required for calibrating and validating the above model.

The tasks undertaken is substantive given the diversity of data required and the data availability conditions in Pakistan. It entails collection of information from various published sources besides field interviews with relevant government and other officials at each of the four provincial and federal capitals. In addition, access to data bases like NCRD is also required. Furthermore, generation of a 20 years time series requires access to old records and publications. We have however, been successful in collecting over 90 percent of the information required. The data has been compiled module-wide, as specified, in the earlier report. In the subsequent sections we briefly describe the data sources and identify gaps, if any.

2. THE MACRO-MODULE

On the whole there are 45 variables in the five blocks of the macro module. We have been successful in generating the time-series from 1972-73 to 1992-93 for almost all of these variables. The only gap is in the case of derived variables that are to be generated within the model. An example is the human capital index (HCI) which is to be estimated within one of the recursive modules.

The macro-economic data consists of, among others, information on national income by sector, sectoral distribution of investment and consumption, distribution of labour force by sector, national imports and exports, interest rates, prices, and information on remittances and monetary assets and population.

The major sources of information are as follows:

- i) Pakistan Economy Survey,
- ii) Annual Report of the State Bank of Pakistan,
- iii) Pakistan Statistical Yearbook and;
- iv) Agricultural Statistics of Pakistan.

An attempt has been made to keep the use of different data sources to an minimum to ensure consistency.

One of the major problems in generating a consistent macro-economic time-series is the change in estimation methodology of the national income accounts in 1987-88. Data on subsequent years is based on the new, changed, methodology. As such, there is need

to develop a methodologically consistent time series. We have applied regression analysis to generate such a series for the relevant macro variables. The following regression equation has been estimated.

$$NX_i = \beta_0 + \beta_1 OX_i + \mu_i$$

where

NX_i = Value of the 'ith' variable based on new methodology

OX_i = Value of the 'ith' variable based on old methodology

μ_i = error term

Results of regression for various sectors are presented in the appendix. Data is available at constant prices and has been converted to a consistent base year, 1980-81. Information on population, its age, sex and locational characteristics has been collected from the decennial publications issued by the Population Census Organisation of the Federal Bureau of Statistics. These are the reports for each of the provinces for the 1972 and 1981 Censuses of Population. Interpolations for the intervening years have been made using the implicit population growth rate and have also been extrapolated for the period to date at this same rate. The year on year estimates are presented in the Tables.

3. THE FISCAL MODULE

The fiscal module consists of eight blocks encompassing all the three levels of government. Data is required for about 100 variables. Some of these are derived variables and as such can be estimated at the time of estimation of the main model in

the next stage. The data requirements for this module, therefore, are quite substantive, we have been able to collect data on about 90 percent of these variables.

3.1 Federal Finances

Data on federal finances include details of revenues, both tax and non-tax, discretionary tax changes, debt and debt servicing and sectoral composition of recurring and development expenditures.

Main sources of information include;

- i) Federal Budget in Brief;
- ii) Explanatory Memorandum of the Budget, Finance Ministry, Government of Pakistan;
- iii) Pakistan Economic Survey;
- iv) Central Board of Revenues (CBR) Yearbook and
- v) Statistical Yearbook of Pakistan.

There are no major gaps in the federal finance data.

3.2 Provincial Finances

Detailed information on provincial tax and non-tax sources and sectoral and sub-sectoral recurring and development expenditures has been collected. Major sources of provincial finance data base include:

- i) Annual Budget Statements of the provincial government;
- ii) Annual Report of State Bank of Pakistan;
- iii) Provincial Annual Development Plans and
- iv) Provincial Estimates of Expenditures.

Information, on discretionary tax changes is obtained from the Budget speeches of Provincial Finance Ministers' and interviews with relevant government officials. The quality of data, however, is doubtful and therefore, it should best be considered reflective.

3.3 Local Finances

Information on Local Finances includes details of tax and non-tax receipts and sectoral development and recurring expenditures. The NCRD data base has been used to obtain information on the 628 local councils in the country. The time frame of data availability is from 1979-80 to 1986-87 and 1989-90 to 1991-92. The intermediate years have been interpolated. Data for earlier years is not available. There were substantial differences in the administrative and financial structure of local councils before 1979. As such statistical technique can, perhaps, not be used to generate data for earlier years.

Information on discretionary tax changes for local taxes could not be collected. This information on the multitude of local councils in the country has yet to be centralised. However, it would perhaps be save to conjecture that the discretionary changes in local taxes in the country, particularly in the case of smaller local councils, have been marginal.

4. SOCIAL SECTOR MODULE

The social sector consists of a basket of services needed to improve the quality of life. These are diverse and include services such as education, health, public health, population planning, social welfare, hygiene education, medical education, immunisation, etc. We have aggregated these into four sub-modules, namely, education, health, public health and population welfare. These are then used for constructing the human capital index and also for deriving the public health index.

The data required for estimating the model was stated in the Report specifying the model itself. A number of the variables were derived relationships of two variables or were aggregates of a number of other variables. These disaggregated bits of data have been collated from a number of sources and are discussed below.

4.1. Education

The basic information on school education consists of the number of schools, teachers and the class-wise enrollment separately for boys and girls. Information on the number of schools and teachers by level (Primary, Middle and High) separately for boys and girls, as well as for enrollment by class is available from the Central Bureau of Education, Ministry of Education, Government of Pakistan. This is published periodically. The Pakistan Education Statistics, 1979 contained data for the period 1972 to 1977. The 1989 issue provides data for the period 1978 to 1986. The Pakistan School Statistics, 1990 provides data for 1987 and the issue released in 1993 cover the remaining period to June 1993. However, the reported data for the period 1991-92 and 1992-93 is based on estimates prepared by the Bureau.

The derived relationship, namely, the enrollment per school in Classes I and VI, the enrollment ratio (the ratio of enrollment to population in the relevant age group) and the number of teachers per school by sex are presented.

Information on college and university education, institutions, teachers and students, has been compiled from the Pakistan Education Statistics, 1979 for the period 1972 to 1977, and the 1993 issue for the period 1981 to 1993. The interim data was not available from tills source and, therefore, the series was completed from the Pakistan Economic Survey, 1991-92. These alongwith the concentration ratios of teachers per college and students per college have been shown in Tables.

The literacy rate for both males and females have been derived by extrapolating the reported figures in the last two censuses of population, namely, 1972 and 1981, and the estimates of the Planning Commission (reported in the Pakistan Economic Survey, 1992-93).

A wealth of data on schools exists in the NEMIS (National Education Management Information System) data base developed by the Ministry of Education, Government of Pakistan with the technical assistance of UNICEF (United Nations Children's Fund). This data has substantial limitations. It is available for all the regions of Pakistan only for the 1990-91 financial year. It is restricted only to those schools managed by the Department of Education of each province and the Federal Board of Education. It does not cover all other schools, for example, those privately owned or those operated by the Cantonment Boards, other Departments, Divisions, agencies or organisations of the provincial and federal governments. However, this may be useful for developing the

behavioural relationships envisaged in the model. This can only be established when the work on estimating the model commences.

4.2 Health

A consistent series of statistics on health infrastructure is not readily available. The series which is generally accepted as being accurate is published each year in the Pakistan Economic Survey. Information on the facilities and on the personnel have been collected. The former excludes data on privately owned and managed facilities. The latter is derived from a register maintained by the Pakistan Medical Association for Doctors and the Pakistan Nursing Council for Nurses. Information on paramedical staff is not available. An additional set of data relates to the Expanded Immunisation Programme. Accurate estimates of the programme are released by the Health Departments of the provinces and have been compiled in both the Pakistan Statistical Yearbooks issued annually by the Federal Bureau of Statistics and the Pakistan Economic Survey. This is however available only since 1981-82. Information on earlier years have not been compiled either at the provincial or the federal level.

Unit Costs of provision of social services have been estimated using the Annual Development Plans of the provinces. Estimates are at 1992-93 prices.

4.3 Water Supply and Sanitation

The coverage of water supply and sanitation shown separately for the urban and the rural areas has been extrapolated for the intervening years from the data available from the:

- a. Household, Economic and Demographic Survey, 1973,
- b. Housing Census, 1980

conducted by the Population Census Organisation. The revealed growth rate has been used also to estimate the coverage for the subsequent years to 1992.

4.4 Human Capital Index

Data for the development of the human capital index by economic sector requires information on the labour force composition with respect to their skills and education. Specific data on this is collected as part of the Labour Force Survey conducted by the provincial Labour Departments. However the detailed data is not published in the annual "Labour Force Survey" issued by the Federal Bureau of Statistics. This publication states that other relevant material can be made available to researchers on request. However, owing to the reorganisation of the Bureau which is currently under way, our request for this information elicited the response that this would be made available at a later date after the reorganisation was complete. Moreover, copies of the Labour Force Survey for each of the years from 1971-72 were not available with the Bureau's main sales office in Karachi. Discussions with the Bureau officials indicate that these may be available with major gaps in several libraries around the country. To fill in the gaps an effort can again be made to collate this in the subsequent phase when visits will be undertaken to several locations around the country for the micro-studies.

In addition to this data information on relative wages is needed for assigning weight to individual segments of the basket of data used to develop the Indices. As a proxy for the direct Labour Force Survey data we have collated the data on incomes of the urban

population by occupation group contained in the Household Income and Expenditure Survey, 1987-88.

5. ASSESSMENT OF THE DATA COLLECTED The shortcomings in the data have been identified in the foregoing paragraphs. The reliability of the data on the social sectors is not very high. This is limited by the fact that secondary data is collected by a weak and un-motivated force of statisticians working in an environment, which does not provide sufficient resources. However, the information on the fiscal module is, by and large, very accurate as it is based largely on the actual figures issued by the finance departments of various tiers of government.

Because of the lack of some elements of the data needed to calibrate some recursive parts of the social modules in particular, as hypothesised, some of the behavioural equations may need to be reformulated. This would not necessarily mean any additional inputs for conceptualising the analysis. However, some marginally additional input may be required to collate any freshly identified variables. This would, however, not delay the estimation of the model itself as this data collection could be undertaken simultaneously with the data collection for the micro studies.

TABLE 2
CULTIVATED LAND AND NUMBER
OF TRACTORS IN PAKISTAN

	Cultivated Area (Million Hectors) [A]	No. of Tractors (000) [T]
1971-72	19.1	7.6
1972-73	19.1	9.0
1973-74	19.4	9.3
1974-75	19.6	12.6
1975-76	19.8	21.6
1976-77	19.8	30.0
1977-78	20.1	38.2
1978-79	20.0	45.6
1979-80	20.2	68.2
1980-81	20.3	79.4
1981-82	20.4	88.2
1982-83	20.3	106.5
1983-84	20.3	135.7
1984-85	20.6	157.0
1985-86	20.7	181.1
1986-87	20.9	198.9
1987-88	20.7	217.6
1988-89	21.0	242.5
1989-90	21.1	258.2
1990-91	21.1	269.5
1991-92	21.1	281.4

Source: Economic Survey, Government of Pakistan. 1992-93

TABLE 3
LABOUR FORCE AND EMPLOYMENT BY SECTOR IN PAKISTAN

[Numbers in Million]

	LABOUR FORCE IN						
	Labour Force	Employed Labour Force	Agriculture [L _A]	Manufacturing [L _M]	Others [L _S]	Non-Agriculture [ELF _{NA}]	Rural Labour Force [RLF _S]
1971-72	18.9	18.6	10.6	2.4	5.5	7.9	15.09
1972-73	19.6	19.2	10.9	2.5	5.8	8.4	15.44
1973-74	20.1	19.8	11.0	2.7	6.1	8.8	15.81
1974-75	20.6	20.3	11.1	2.8	6.4	9.2	16.18
1975-76	21.5	21.1	11.4	3.0	6.7	9.6	16.83
1976-77	22.5	21.9	11.8	3.1	7.0	10.1	17.51
1977-78	23.5	22.7	12.1	3.3	7.4	10.6	18.22
1978-79	24.5	23.6	12.4	3.5	7.7	11.2	18.95
1979-80	25.1	24.2	12.7	3.5	8.0	11.4	19.25
1980-81	25.7	24.7	13.0	3.5	8.2	11.7	19.56
1981-82	26.3	25.3	13.3	3.5	8.5	12.0	19.87
1982-83	26.9	25.9	13.6	3.5	8.7	12.2	20.19
1983-84	27.5	26.4	13.6	3.6	9.2	12.8	20.68
1984-85	28.0	27.0	13.6	3.7	9.6	13.3	21.19
1985-86	28.1	27.0	14.6	3.6	8.8	12.4	21.71
1986-87	29.6	28.7	14.1	4.1	10.5	14.6	22.24
1987-88	29.9	29.0	14.8	3.7	10.4	14.2	21.86
1988-89	30.9	29.9	15.3	3.8	10.8	14.6	22.54
1989-90	31.8	30.8	15.8	4.0	11.1	15.1	23.23
1990-91	32.8	31.8	16.3	4.1	11.4	15.5	22.99
1991-92	32.8	32.8	16.8	4.2	11.8	16.0	23.70
1992-93	33.8	31.7	15.0	3.9	12.7	16.7	24.42

Sources: i) Economic Survey, Government of Pakistan, 1992-93
ii) Labour Force Surveys, 1971-72, 1974-75, 1978-79 and 1982-83.

TABLE 4
INVESTMENT STOCK IN MANUFACTURING

Years	[At Current Prices]		[Rs. in Million]
	Investment in Manufacturing		
	Private	Public	Total
1972-73	1898	93	1991
1973-74	1902	365	2267
1974-75	2319	1051	3369
1975-76	2703	3176	5879
1976-77	2998	4512	7511
1977-78	3006	6149	9155
1978-79	3376	6665	10042
1979-80	4407	6599	11007
1980-81	4553	4836	9389
1981-82	5471	4684	10155
1982-83	6806	5143	11949
1983-84	8565	5700	14265
1984-85	10011	3871	13882
1985-86	12267	4623	16890
1986-87	13572	3190	16762
1987-88	16538	3067	19605
1988-89	23292	2623	25915
1989-90	29680	2195	31875
1990-91	35905	2729	38634
1991-92	50490	4610	55100

Source: Annual Reports, State Bank of Pakistan, 1987-88 and 1991-92.

C. MACRO EXPENDITURE BLOCK TABLE 5

PUBLIC AND PRIVATE INVESTMENT & CONSUMPTION

[Rs. in Million]

Years	Consumption			Investment		
	Total	Private	Public	Total	Private	Public
	[C]	[C _p]	C _G	[I]	[I _p]	[I _d]
1971-72	170948	163104	7843	6987	6658	329
1972-73	176228	168222	8006	10170	6860	3310
1973-74	186877	178202	8675	13312	6987	6325
1974-75	194903	183916	10986	19245	8621	10624
1975-76	198888	183411	15477	27545	11395	16150
1976-77	204887	187915	16973	31567	13013	18554
1977-78	219528	199755	19772	34372	14178	20194
1978-79	233622	211269	22353	37145	15318	21827
1979-80	247959	222586	25374	46817	19416	27401
1980-81	252411	224135	28276	47707	21608	26099
1981-82	264983	234239	30744	54589	23331	31258
1982-83	279991	243703	36288	61761	26758	35003
1983-84	299441	258725	40716	69212	31419	37793
1984-85	324640	281173	43467	77925	35840	42085
1985-86	326020	278194	47826	87545	39959	47586
1986-87	342164	288006	54158	100040	44349	55691
1987-88	373863	317345	56518	111266	51769	59497
1988-89	387964	319912	68052	133170	64162	69008
1989-90	400202	334306	65896	148076	76563	71513
1990-91	395432	329866	65566	177646	91226	86420
1991-92	436107	375700	60407	256067	133869	122198
1992-93	441430	377990	63440			

^A At constant market prices

^B Excluding change in stock:

^C At current market prices

Sources: i) Annual Reports, State Bank of Pakistan, 1987-88 and 1991-92.

ii) Economic Survey, Government of Pakistan, 1992-93.

TABLE 6
SECTORAL BREAK-UP OF PRIVATE INVESTMENT
[At Current Prices] [Rs in Million]

Years	Investment in			
	Manufacturing	Agriculture	Other Sectors	Non-Manufacturing Sectors
	CIJ			[I _o]
1972-73	1898	389	4573	4962
1973-74	1902	602	4484	5085
1974-75	2319	673	5629	6302
1975-76	2703	2707	5985	8692
1976-77	2998	3096	6919	10015
1977-78	3006	3629	7543	11172
1978-79	3376	3768	8174	11942
1979-80	4407	4545	10463	15009
1980-81	4553	4662	12393	17055
1981-82	5471	4889	12971	17860
1982-83	6806	5972	13980	19952
1983-84	8565	7358	15496	22854
1984-85	10011	8157	17672	25829
1985-86	12267	8141	19551	27692
1986-87	13572	9052	21725	30777
1987-88	16538	10075	25156	35231
1988-89	23292	11711	29159	40870
1989-90	29680	13931	32952	46883
1990-91	35905	14889	40168	55057
1991-92	50490	16866	46225	63091

Source: Annual Report, State Bank of Pakistan, 1987-88 and 1991-92.

TABLE 7
REMITTANCES AND INTEREST RATES

[Percent]

Years	Worker's Remittances (US\$ million) [RM]	Weighted Rates of Returns [INT]	
		Advances	Deposits
1972-73	146*	8.54	3.59
1973-74	152*	9.48	3.94
1974-75	212	10.81	4.67
1975-76	334	10.92	5.30
1976-77	578	11.68	6.32
1977-78	1156	11.80	6.23
1978-79	1398	11.62	6.11
1979-80	1744	11.09	6.18
1980-81	2116	11.20	5.95
1981-82	2225	10.72	6.05
1982-83	2889	10.55	6.24
1983-84	2737	10.83	6.39
1984-85	2446	10.49	5.76
1985-86	2595	10.91	8.80
1986-87	2279	11.00	7.87
1987-88	2013	10.70	7.67
1988-89	1897	10.89	7.95
1989-90	1942	10.59	8.23
1990-91	1848	10.73	9.82
1991-92	1468	10.72	9.35

* Total Private Transfers.

Source: Pakistan Economic Survey, 1992-93.

K. TRADE BLOCK

TABLE 8

KEY MAGNITUDES IN TRADE [AT CONSTANT FACTOR COST/MARKET PRICES OF 1980-81]

[Rs. in Million]

Years	Total Value Import G&NFS [IMP]	Total Value Export G&NFS [X]
1971-72	43943	8999
1972-73	43851	23494
1973-74	47462	17093
1974-75	50410	8085
1975-76	52625	11409
1976-77	53694	3805
1977-78	56896	9731
1978-79	64625	11834
1979-80	66474	26425
1980-81	62129	35707
1981-82	61835	33570
1982-83	68703	41819
1983-84	73672	40275
1984-85	80241	40130
1985-86	78266	53296
1986-87	79825	59868
1987-88	77107	57112
1988-89	83524	64979
1989-90	80601	65710
1990-91	74639	87700
1991-92	97660	99821
1992-93	101346	108831

Source: Economic Survey, Government of Pakistan, 1988-89 and 1992-93.

M: MONETARY BLOCK**TABLE 9****MONETARY ASSETS**

Years	Currency in Circulation	Demand Deposits	Time Deposits	Other	Million] Total Monetary Assets [M]
1971-72	5343	9456	7867	538	23203
1972-73	7286	10264	9022	496	27068
1973-74	9295	11455	9134	795	30679
1974-75	10273	12051	10419	331	33074
1975-76	12603	14868	13970	210	41651
1976-77	15523	19506	16519	225	51773
1977-78	18310	23602	21470	277	63659
1978-79	23745	28917	25620	330	78612
1979-80	27649	33689	30435	651	92424
1980-81	34750	38239	31061	571	104621
1981-82	37650	42672	35584	604	116510
1982-83	45767	50228	49483	547	146025
1983-84	52039	50707	59822	699	163267
1984-85	56447	61779	64937	742	183905
1985-86	63276	70677	76280	878	211111
1986-87	74703	83821	80398	1101	240023
1987-88	87785	95967	84374	1218	269344
1988-89	97508	103893	77105	3132	281638
1989-90	115067	119704	80241	2209	317221
1990-91	136967	144457	89436	3114	373974
1991-92	151819	179361	116510	3322	451012

Source: Annual Reports, State Bank of Pakistan, 1982-83 and 1991-92.

TABLE 10

PRICE INDICES

[1980-81 = 100]

Year	GDP Deflator (MP)	Wholesale Price Index Manufacture	Unit Value Index	Unit Value Index
	[PI]	[PI _M]	Exports [WPI _X]	Imports [PI _{IMP}]
1972-73	0.3779	39.36	37.69	26.97
1973-74	0.4684	50.53	60.68	39.01
1974-75	0.5726	58.72	56.64	58.10
1975-76	0.6418	64.92	56.79	55.10
1976-77	0.7102	72.99	66.61	59.34
1977-78	0.7740	77.83	70.19	64.68
1978-79	0.8167	82.23	87.39	67.22
1979-80	0.9024	90.83	94.43	82.26
1980-81	1.0000	100.00	100.00	100.00
1981-82	1.0937	103.44	98.40	110.78
1982-83	1.1514	110.16	106.16	119.38
1983-84	1.2626	124.50	118.77	125.18
1984-85	1.3199	127.75	124.32	133.01
1985-86	1.3633	132.11	118.71	132.21
1986-87	1.4249	141.44	132.05	136.89
1987-88	1.5619	151.78	163.89	170.15
1988-89	1.6960	168.90	167.99	187.54
1989-90	1.8054	184.01	192.93	215.00
1990-91	2.0413	216.56	197.05	252.79
1991-92	2.2475	237.24	209.09	253.34

Sources: i) Economic Survey, Government of Pakistan, 1987-88 and 1992-93.

ii) Pakistan Statistical Yearbook, 1976.

OTHER MACRO MAGNITUDES

TABLE 11

POPULATION BY REGION AND BY SEX

[Number in Thousand]

Years	Total			Rural			Female of Child Bearing (15-49) [FPOP]
	Male	Female	Total [POP]	Male	Female	Total [RPOP]	
1972	34619	30262	64881	25674	22770	48444	13262
1973	35618	31260	66878	26294	23420	49714	13681
1974	36638	32284	68922	26924	24082	51007	14110
1975	37688	33341	71029	27568	24762	52330	14553
1976	38768	34433	73201	28224	25458	53683	15009
1977	39879	35561	75440	28894	26173	55067	15480
1978	41022	36725	77747	29577	26905	56482	15966
1979	42197	37928	80126	30274	27655	57929	16466
1980	43407	39170	82577	30984	28424	59408	16983
1981	44651	40453	85104	31708	29212	60920	17516
1982	45930	41778	87708	32446	30019	62464	18065
1983	47246	43146	90393	33198	30845	64043	18632
1984	48600	44559	93160	33964	31692	65655	19216
1985	49993	46019	96012	34744	32558	67302	19819
1986	51425	47526	98951	35538	33445	68983	20441
1987	52899	49082	101981	36347	34353	70700	21082
1988	54415	50690	105105	37170	35282	72452	21744
1989	55974	52350	108324	38008	36232	74240	22426
1990	57578	54064	111643	38860	37204	76064	23129
1991	59228	55835	115063	39726	38198	77924	23855
1992	60926	57663	118589	40608	39214	79821	24606

Source: Economic survey, Government of Pakistan, 1991-92.

TABLE 12
POPULATION OF 0-4 AND 5-9 YEARS BY SEX

[Number in Thousand]

Year	0-4 Years			5-9 Years		
	Male	Female	Total [SPOP]	Male [MPOP ^p]	Female [FPOP ^p]	Total
1972	4897	4877	9775	5513	5015	10528
1973	5046	5053	10099	5668	5167	10835
1974	5190	5219	10409	5830	5336	11166
1975	5339	5390	10729	5998	5511	11508
1976	5492	5566	11058	6169	5691	11861
1977	5649	5748	11398	6346	5878	12224
1978	5811	5937	11748	6528	6070	12598
1979	5978	6131	12109	6715	6269	12984
1980	6149	6332	12481	6908	6474	13382
1981	6325	6539	12864	7105	6686	13792
1982	6507	6753	13260	7309	6905	14214
1983	6693	6975	13668	7519	7131	14650
1984	6885	7203	14088	7734	7365	15099
1985	7082	7439	14521	7956	7606	15562
1986	7285	7682	14967	8184	7855	16039
1987	7494	7934	15428	8418	8113	16531
1988	7709	8194	15902	8659	8378	17038
1989	7929	8462	16392	8907	8653	17560
1990	8157	8739	16896	9163	8936	18099
1991	8390	9026	17416	9425	9229	18654
1992	8631	9321	17952	9695	9531	19226

Sources: i) Pakistan Economic survey, 1991-92.

ii) Pakistan Statistical Yearbook, 1991.

TABLE 13
POPULATION OF 10-14 AND 15-19 YEARS BY SEX

Year	10-14 Years			15-19 Years		
	Male	Female	Total	Male	Female	Total
	[MPOP ^s]	[FPOP ^s]		[MPOP ^c]	[FPOP ^c]	
1972	4540	3587	8127	3007	2517	5524
1973	4694	3731	8425	3137	2626	5763
1974	4853	3879	8732	3272	2738	6010
1975	5016	4033	9049	3412	2855	6267
1976	5186	4193	9379	3558	2977	6535
1977	5361	4360	9721	3711	3105	6816
1978	5542	4533	10075	3870	3237	7107
1979	5729	4713	10442	4036	3376	7412
1980	5922	4900	10822	4209	3520	7729
1981	6122	5094	11216	4389	3671	8060
1982	6328	5297	11625	4577	3828	8405
1983	6542	5507	12049	4773	3992	8765
1984	6763	5729	12492	4978	4162	9140
1985	6991	5953	12944	5191	4341	9532
1986	7227	6489	13716	5413	4526	9939
1987	7471	6435	13906	5645	4720	10365
1988	7723	6690	14413	5887	4922	10809
1989	7983	6956	14939	6140	5132	11272
1990	8253	7232	15485	6403	5352	11755
1991	8531	7519	16050	6677	5581	12258
1992	8819	7818	16637	6963	5819	12782

Sources : i) Pakistan Economic survey, 1991-92.
ii) Pakistan Statistical Yearbook, 1991.

D. FEDERAL REVENUE BLOCK

TABLE 14
FEDERAL REVENUES
[Current Prices]

	Income Tax [IT _F]	Sales Tax [STR _F]	Excise Duty [ETR _F]	Import Duty [MTR _F]	Gross Fed. Tax Revenue [GTR _F]	Non-Tax Revenue [RNT _F]	Rec. From Public Admin. [RAF _F]	Misc. Revenue [MR _F]	Gross Revenue [GRR _F]	Divisible Pool Transfers [DPT _F]	Net Revenue [NRR _F]
1971-72	1.23	0.48	2.11	1.14	5.16	1.43	0.56	0.87	6.92	0.86	6.06
1972-73	1.15	0.46	2.21	1.55	6.51	1.64	0.77	0.87	8.41	0.87	7.54
1973-74	1.19	0.69	2.89	2.36	9.02	2.51	1.71	0.80	11.95	0.88	11.07
1974-75	1.38	1.07	3.67	3.70	10.94	2.95	1.82	1.13	14.38	1.38	13.00
1975-76	2.16	1.20	4.58	4.37	13.19	3.80	1.85	1.95	17.72	2.48	15.24
1976-77	2.67	1.36	5.43	5.96	15.66	4.50	1.83	2.67	20.61	2.80	17.81
1977-78	2.84	1.59	6.30	8.04	19.19	6.30	1.71	4.59	25.50	3.50	22.00
1978-79	3.34	1.93	6.92	9.85	22.40	7.50	1.63	5.87	29.90	4.10	25.80
1979-80	5.23	2.41	9.70	12.12	30.02	7.90	1.70	6.20	37.90	6.00	31.90
1980-81	7.03	2.89	10.41	13.57	34.76	11.50	2.41	9.09	46.30	8.60	37.70
1981-82	8.31	3.25	11.74	14.68	38.55	12.60	3.18	9.42	51.20	9.20	42.00
1982-83	8.44	3.49	12.91	18.11	43.54	15.20	3.75	11.45	59.10	10.00	49.10
1983-84	8.57	4.62	15.65	21.07	50.60	21.70	4.08	17.62	72.30	11.30	61.00
1984-85	9.07	4.67	15.31	22.88	52.67	25.30	4.47	20.83	78.00	11.90	66.10
1985-86	9.59	4.93	15.52	28.35	59.57	35.50	4.57	30.93	93.70	12.90	80.80
1986-87	10.35	6.41	15.36	33.09	65.70	40.00	3.91	36.09	102.30	13.40	88.90
1987-88	11.53	8.74	17.40	34.71	75.98	45.30	4.43	40.87	121.20	16.20	105.00
1988-89	13.41	14.70	20.04	37.88	91.02	52.00	11.50	40.50	143.60	23.90	119.70
1989-90	15.00	18.57	22.34	43.70	105.14	57.00	13.55	43.45	161.20	30.90	130.30
1990-91	19.08	17.01	24.74	46.44	112.14	58.30	19.86	38.44	170.30	33.80	136.50
1991-92	27.01	21.50	32.02	58.38	161.65	63.50	27.76	35.74	222.87	58.00	164.89
1992-93	36.00	23.98	36.02	64.66	174.49	75.35	35.83	39.52	249.85	65.09	184.76

[Rs in Billion]

Sources: i) Explanatory Memorandum on the Budgets. ii) Budget in Brief, Government of Pakistan. iii) Economic Survey, Government of Pakistan iv) CBR Year Book.

REVENUE TABLE CHANGES
IMPACT OF DISCRETIONARY IN MAJOR
FEDERAL TAXES

[Rs in Million]

	Import Duty	Central Excise	Sales Tax	Income Tax	Total
	[DCM _F]	[DCE _F]	[DCS _F]	[DCI _F]	
1971-72	-25	369	0	298	642
1972-73	2	126	-23	97	202
1973-74	490	0	-50	-20	420
1974-75	-945	100	-3	-105	-953
1975-76	145	6	0	-24	127
1976-77	939	60	160	-84	1075
1977-78	500	-132	40	-3	406
1978-79	-107	-16	-4	199	72
1979-80	864	2461	201	-30	3496
1980-81	202	610	88	500	1400
1981-82	310	4	-202	-60	52
1982-83	3195	714	-3	-105	3802
1983-84	620	265	116	-438	563
1984-85	-80	-737	35	74	-708
1985-86	4300	63	-131	-698	3534
1986-87	0	513	264	2559	3336
1987-88	-19	16	1696	-428	1265
1988-89	n.a	n.a	n.a	n.a	0
1989-90	1175	n.a	n.a	n.a	1175
1990-91	1940	512	n.a	n.a	2452
1991-92	5255	4292	989	3335	13871
1992-93	2000	6800	n.a	1800	10600

Sources: i) CBR Year Book, 1988.

ii) Budget Speeches of Finance Ministers. C1988-89 to 1992-93).

TABLE 17
FEDERAL EXPENDITURE
[Current Prices]

	Total Development Expenditure	Total Current Expenditure	Defence	Interest on Domestic Debt	Interest on External Debt	Repayment of External Debt	Non-Obl igatory Grants
	[DE _F]	[RE _F]	[DEF _F]	[INTDD _F]	[INTED _F]	[REP _F]	[G _p]
1971-72	2.67	5.71	3.73	0.54	0.46	0.48	0.02
1972-73	4.23	7.00	4.44	0.31	0.86	0.13	0.05
1973-74	6.38	8.62	4.95	0.72	0.79	0.59	0.25
1974-75	11.34	11.48	6.91	0.35	1.03	0.96	0.49
1975-76	14.09	13.44	8.10	0.44	1.07	2.06	0.34
1976-77	16.90	14.18	8.12	0.53	1.35	1.78	0.64
1977-78	17.40	19.10	9.70	1.43	1.58	1.10	1.30
1978-79	20.60	22.70	10.20	1.33	1.47	2.50	1.90
1979-80	21.30	23.80	12.70	0.97	0.93	5.60	1.20
1980-81	25.40	28.30	15.30	2.56	1.74	3.60	1.30
1981-82	28.00	32.00	18.60	2.52	1.28	5.90	1.60
1982-83	30.00	42.70	24.60	3.00	2.10	8.70	2.60
1983-84	34.05	55.80	26.80	5.77	3.52	8.50	5.70
1984-85	36.80	68.20	31.90	7.74	4.46	9.00	9.10
1985-86	38.20	76.70	33.80	10.70	5.40	10.80	10.50
1986-87	50.00	93.80	38.90	13.78	6.42	11.80	14.10
1987-88	54.80	107.10	45.30	18.98	6.93	13.50	15.70
1988-89	55.70	118.70	51.10	24.68	6.92	16.30	10.00
1989-90	55.00	142.40	58.70	34.60	11.40	13.50	6.90
1990-91	61.60	161.80	64.60	33.90	13.00	15.90	13.00
1991-92	79.08	198.89	75.77	46.90	14.14	19.03	2.16
1992-93	74.10	218.81	82.15	57.80	14.46	20.92	3.25

Sources:

- i) Federal Budget in Brief, Government of Pakistan.
- ii) Economic Survey, Government of Pakistan.

TABLE 18
TREND IN PROVINCIAL FINANCES

[Rs in Million]

	General Revenue Receipts [GRR _p]	Current Expenditure [RE _p]	Revenue Deficit(-) Surplus(+) [RSD _p]	Total Development Expenditure [DE _p]	Development Transfers [DETF _p]	Cash Balance Utilisation [BDEF _p]
1972-73	2342	2647	-305	1961	1926	-350
1973-74	3075	3028	47	2552	2246	-260
1974-75	4398	4335	62	3022	2710	-250
1975-76	5574	5515	59	3727	7277	3609
1976-77	6371	6544	-173	4122	4231	-65
1977-78	7644	7745	-100	3989	4119	29
1978-79	8949	8728	221	4315	4490	396
1979-80	10771	10527	221	4443	4815	-12
1980-81	13079	12084	995	4896	4178	-211
1981-82	15160	14632	528	6138	5954	-275
1982-83	17410	17412	-2	7365	7613	571
1983-84	21611	21574	37	7776	7431	-1210
1984-85	26011	25957	53	8318	8074	-191
1985-86	32664	32444	219	11683	10205	-1258
1986-87	39860	39770	91	14719	12274	-2354
1987-88	45217	46138	-921	16968	14646	-3242
1988-89	48391	48468	-77	15391	9792	-5676
1989-90	48737	52022	-8284	16704	16186	-3802
1990-91	57027	63261	-6234	23270	24982	-4523
1991-92	80616	75448	5168	27982	23796	981
1992-93	91650	86877	4774	30398	20550	7860
1993-94	106631	97270	9362	32753	24999	16930

Source: Annual Budget Statements of Provincial Governments.

TABLE 19
PROVINCIAL TAX RECEIPTS

[Rs in Million]

	Stamp Duty	Motor Vehicle Tax	Property Tax	Other Taxes	Total Taxes
	[SDp]	[MVTp]	[PTp]	[OTp]	[TTp]
1971-72	100	96	6	414	617
1972-73	95	108	6	433	642
1973-74	133	133	10	630	905
1974-75	192	148	16	751	1107
1975-76	271	175	34	790	1270
1976-77	322	191	40	801	1354
1977-78	360	239	27	884	1509
1978-79	360	285	50	911	1607
1979-80	450	325	122	949	1846
1980-81	620	409	139	1024	2192
1981-82	698	463	159	1046	2366
1982-83	759	548	195	1084	2586
1983-84	819	611	216	1195	2841
1984-85	929	666	254	1324	3174
1985-86	943	727	281	1424	3374
1986-87	1274	738	257	1311	3581
1987-88	1393	885	317	1442	4036
1988-89	1707	947	337	1555	4547
1989-90	1789	994	360	1880	5023
1990-91	2520	1165	415	2664	6764
1991-92	3526	1198	482	2556	7761

Source: Annual Budget Statements of Provincial Governments.

TABLE 20

PROVINCIAL NON-TAX RECEIPTS

[Rs in Million]

	Irrigation [RIP _p]	Others Economic Sector [ROTE _p]	Total Economic Sector	Public Health [RPH _p]	Health [RH _p]	Education [RED _p]	Others Social Sector [ROTS _p]	Total Social Sector	Non-Tax Receipts [TNT _p]
1972-73	262	139	401	3	16	76	10	105	743
1973-74	319	198	517	6	14	51	10	82	992
1974-75	336	274	610	7	14	38	12	72	1303
1975-76	358	350	708	9	17	32	8	65	1417
1976-77	388	352	740	9	21	30	26	87	1367
1977-78	462	426	889	11	23	42	9	85	1515
1978-79	532	525	1057	9	25	41	7	83	1684
1979-80	545	476	1021	12	29	46	55	141	2189
1980-81	638	362	1000	15	46	29	71	164	2354
1981-82	782	659	1441	15	34	49	81	179	2836
1982-83	937	709	1647	16	49	56	83	205	3219
1983-84	1027	804	1831	21	60	68	87	236	3697
1984-85	1018	867	1886	36	76	191	120	423	4067
1985-86	1098	883	1980	34	114	257	115	520	4778
1986-87	1123	980	2102	37	99	270	131	537	7206
1987-88	1164	1220	2385	40	113	293	146	593	8841
1988-89	1265	1215	2479	49	121	342	144	656	4814
1989-90	1373	1312	2685	56	140	342	155	692	5383
1990-91	1422	1467	2888	72	171	547	134	924	6188
1991-92	1556	1599	3155	85	204	590	176	1055	6392
1992-93	1596	1716	3312	314	216	654	176	1359	6673

Source: Annual Budget Statements of Provincial Governments, 1972-73 to 1993-94.

TABLE 21
COST RECOVERY RATIOS

	Irrigation [CRIP _p]	Others Economic Sector [CROTE _p]	Total Economic Sector	Public Health [CRPH _p]	Health [CRH _p]	Education [CRED _p]	Others Social Sector [CROTS _p]	(%) Total Social Sector
1971-72	17.6	56.0	39.9	9.6	13.9	9.5	0.0	10.2
1972-73	88.7	58.4	75.2	46.8	13.0	12.7	16.1	13.2
1973-74	90.9	60.3	76.2	65.9	9.6	6.1	11.1	7.5
1974-75	76.6	61.7	69.1	49.3	6.7	3.2	10.2	4.7
1975-76	67.1	61.7	64.4	49.3	6.0	2.2	5.7	3.5
1976-77	65.1	57.3	61.2	49.5	6.2	1.9	16.9	4.2
1977-78	75.8	63.3	69.2	46.4	5.4	2.0	4.0	3.1
1978-79	67.6	68.9	68.2	36.2	5.0	1.9	3.2	2.8
1979-80	54.7	60.7	57.4	24.1	5.7	1.9	33.8	4.5
1980-81	56.3	71.2	60.9	10.1	3.8	1.4	35.6	4.5
1981-82	54.5	50.3	52.5	18.3	4.3	1.6	33.8	4.2
1982-83	61.7	43.5	52.3	15.6	5.0	1.4	34.1	3.8
1983-84	56.4	40.6	48.2	14.4	4.7	1.4	30.1	3.5
1984-85	48.8	38.7	43.6	15.4	5.1	3.1	34.5	5.2
1985-86	47.3	32.1	39.0	16.8	5.6	3.2	28.2	4.9
1986-87	43.2	36.6	39.8	7.9	3.6	3.1	4.3	3.6
1987-88	40.3	34.4	37.0	12.1	3.7	2.6	20.1	3.8
1988-89	44.7	34.3	38.9	12.6	3.8	2.8	16.2	3.9
1989-90	49.3	36.4	42.0	13.8	3.8	2.6	17.7	3.9
1990-91	45.1	33.4	38.3	15.9	4.0	3.3	10.3	4.1
1991-92	39.3	31.7	35.1	13.4	3.9	3.0	14.8	3.9
1992-93	36.4	27.3	31.1	31.5	3.4	2.9	8.3	4.2

H. PROVINCIAL EXPENDITURE BLOCK

TABLE 22

SECTORAL DEVELOPMENT EXPENDITURES OF PROVINCES

(Rs in Million)

	Education [DEEP_P]	Health [DEHp]	Others [DEDSp]	Total S.Sector	Irrigation [DEIRp]
1972-73	213	140	229	583	305
1973-74	217	143	283	644	459
1974-75	300	226	534	1060	417
1975-76	366	288	779	1432	521
1976-77	323	261	807	1392	608
1977-78	341	291	892	1524	473
1978-79	472	432	1169	2073	443
1979-80	445	503	1186	2133	306
1980-81	590	546	1174	2311	380
1981-82	712	619	1451	2783	423
1982-83	920	714	1714	3348	820
1983-84	1017	833	2016	3867	784
1984-85	1152	941	1733	3826	760
1985-86	2457	1121	2123	5700	741
1986-87	2499	1844	3228	7570	1037
1987-88	2693	2159	4196	9048	1188
1988-89	2360	2042	3042	7445	734
1989-90	2404	2054	3161	7619	1023
1990-91	1985	1938	5649	9572	1722
1991-92	3593	2422	4718	10732	1033

Sources: i) Annual Budget Statements of Provincial Governments.

ii) Annual Development Programs, Government of Balochistan.

TABLE 23

PROVINCIAL REVENUE EXPENDITURES

(Rs in Million)

	Irrigation [REIR _p]	Others Economic Sector [REOTE _p]	Total Economic Sector	Public Health [REPH _p]	Health [REH _p]	Education [REED _p]	Others Social Sector [REOTS _p]	Total Social Sector	Debt Servicing [DS _p]
1971-72	83	115	198	5	101	483	0.2	590	187
1972-73	295	237	532	6	122	603	62.7	793	320
1973-74	351	327	679	10	144	840	90.7	1084	187
1974-75	438	445	883	14	216	1183	118.5	1532	402
1975-76	534	567	1101	18	280	1431	133.2	1863	776
1976-77	596	615	1210	19	342	1562	155.8	2079	1079
1977-78	610	674	1284	23	422	2059	219.7	2724	1470
1978-79	787	762	1549	26	507	2178	232.4	2943	1809
1979-80	996	784	1781	50	502	2405	161.7	3118	2318
1980-81	1133	509	1642	149	1216	2037	198.3	3600	1926
1981-82	1435	131	2745	82	784	3133	238.7	4238	3009
1982-83	1519	162	3148	102	981	4063	244.3	5390	3727
1983-84	1822	198	3802	143	1264	5017	290.7	6715	4519
1984-85	2087	224	4328	235	1483	6128	347.7	8193	5587
1985-86	2321	275	5072	201	2023	8003	409.2	10636	7493
1986-87	2598	267	5277	467	2772	8699	3055.5	14994	9580
1987-88	2887	355	6439	327	3041	11395	727.6	15490	10711
1988-89	2832	354	6374	391	3230	12262	892.6	16775	11491
1989-90	2783	360	6392	405	3629	12940	875.7	17850	13149
1990-91	3150	439	7544	451	4276	16361	1301.8	22389	15626
1991-92	3962	503	9000	632	5282	19655	1186.0	26755	19010
1992-93	4386	627	10662	997	6252	22928	2125.7	32302	21425

I. LOCAL REVENUE BLOCK**TABLE 24****LOCAL TAX REVENUE**

[Rs in Million]

Year	Octroi	Export Tax	Property Tax	Other Taxes	Total Taxes
	[OCT_L]	[ET_L]	[PT_L]	[OT_L]	[TT_L]
1979-80	865	16	153	219	1253
1980-81	1068	31	227	292	1618
1981-82	1160	43	253	343	1799
1982-83	1318	49	291	392	2050
1983-84	1789	73	326	447	2635
1984-85	1948	239	392	413	2992
1985-86	2242	280	430	512	3464
1986-87	2336	362	447	629	3804
1987-88	2638	402	530	690	4260
1988-89	2980	446	590	757	4773
1989-90	3365	502	656	831	5354
1990-91	3801	906	843	1224	6774
1991-92	4293	1201	863	1793	8150

TABLE 25
LOCAL NON-TAX RECEIPTS

Year	Public Health [RPH_t]	Education [RED_t]	Others [ROT_t]	[Rs in Million] Total [TNT_t]
1979-80	40	1	398	439
1980-81	53	2	620	676
1981-82	66	2	708	776
1982-83	78	2	890	971
1983-84	94	7	916	1017
1984-85	98	12	940	1050
1985-86	129	16	995	1139
1986-87	131	15	1348	1493
1987-88	150	17	1471	1638
1988-89	172	20	1606	1798
1989-90	197	23	1753	1973
1990-91	226	28	1911	2165
1991-92	364	38	1973	2375

TABLE 26

LOCAL COST RECOVERY RATIOS

Year	Education [CREJ]	Public Health [CRPH _L]	[%] Total [CRNT _L]
1979-80	0.6	9.3	19.2
1980-81	1.5	9.7	20.0
1981-82	1.2	10.2	21.9
1982-83	1.1	10.3	21.1
1983-84	2.9	10.6	15.5
1984-85	4.4	10.3	14.9
1985-86	5.3	12.2	13.7
1986-87	4.5	10.8	13.8
1987-88	4.6	11.1	8.4
1988-89	4.8	11.4	8.7
1989-90	5.0	11.8	9.0
1990-91	4.8	10.7	8.3
1991-92	4.5	12.8	9.5

J. LOCAL EXPENDITURE BLOCK**TABLE 27****LOCAL RECURRING EXPENDITURE**

[Rs in Million]

Years	General Administration	Education [REED^]	Public Health [REPH_L]	Health [REH_L]	Other Services [REOTL]	Total Recurring Expenditure [RE_L]
1979-80	260	124	429	65	417	1295
1980-81	383	150	548	87	659	1827
1981-82	445	167	646	105	788	2152
1982-83	498	199	758	124	895	2474
1983-84	590	253	892	156	882	2273
1984-85	686	274	949	175	1036	3119
1985-86	803	293	1053	195	1204	3548
1986-87	1058	334	1213	236	1548	4389
1987-88	1237	372	1350	260	1802	5021
1988-89	1445	415	1503	287	2095	5745
1989-90	1689	462	1674	316	2431	6572
1990-91	1975	580	2111	351	2501	7519
1991-92	2308	846	2839	539	2070	8602

TABLE 28
LOCAL DEVELOPMENT EXPENDITURE

[Rs in Million]

Years	Education [DEED [^]]	Public Health [DEPH _L]	Health [DEH _L]	Others [DEO _L]	Total Development Expenditure [DE _L]
1979-80	19	188	7	301	515
1980-81	31	272	12	481	796
1981-82	31	323	13	619	986
1982-83	35	386	15	711	1147
1983-84	34	453	18	854	1359
1984-85	40	564	15	931	1549
1985-86	44	673	22	961	1701
1986-87	63	836	27	1227	2153
1987-88	66	999	30	1423	2518
1988-89	69	1193	33	1647	2944
1989-90	73	1425	37	1908	3443
1990-91	114	1702	41	2169	4026
1991-92	150	2295	75	2190	4709

TABLE 29
SUB-SECTORAL DEVELOPMENT EXPENDITURE
ON EDUCATION IN PAKISTAN*

Years	Primary	Secondary	Teacher	Technical	College	University [DEST]	Others	[Rs in Million] TOTAL
1972-73	44	46	12	25	45**		59	232
1973-74	30	55	9	41	62**		40	237
1974-75	48	45	13	39	76**		50	271
1975-76	61	77	18	57	115**		60	389
1976-77	49	52	14	45	67**		102	329
1977-78	127	57	n.a	36	43	116	349	728
1978-79	182	81	n.a	67	59	106	316	812
1979-80	227	127	n.a	61	71	156	177	819
1980-81	238	156	n.a	82	75	177	290	1018
1981-82	300	132	n.a	137	86	247	547	1449
1982-83	357	285	n.a	199	141	256	381	1620
1983-84	304	348	24	129	146	255	768	1719
1984-85	353	444	33	154	176	342	859	2019
1985-86	490	638	37	189	232	277	2456	4042
1986-87	880	755	37	204	217	428	2226	4320
1987-88	1145	1046	26	182	220	327	1886	4505
1988-89	933	1150	40	215	283	429	1265	3887
1989-90	1800	1225	53	157	290	363	1193	4719
1990-91	1142	1182	74	212	431	455	1219	4261
1991-92	953	1010	47	167	351	310	1405	3932
1992-93	1588	1077	47	216	463	333	1114	4505

Note: Figures of the years from 1972-73 to 1982-83 are budget estimates.

Sources:

i) Ministry of Education, Government of Pakistan. (1983-84 to 1992-93)

ii) Budget Statistics on Education, 1987. (1977-78 to 1982-83)

iii) Annual Development Programs of Provincial Governments. (1972-73 to 1976-77)

* All levels of government combined.

** Includes expenditures on Universities.

TABLE 30

TRENDS IN SUB-SECTORAL RECURRING EXPENDITURE
ON EDUCATION IN PAKISTAN

[Rs in Million]

Years	Primary	Secondary	Teacher	Technical	College	University	Others	TOTAL
1972-73	179	105	n.a	14	162	37	105	603
1973-74	250	146	n.a	20	226	51	147	840
1974-75	368	216	n.a	29	333	75	217	1239
1975-76	454	266	n.a	36	411	93	267	1528
1976-77	503	295	n.a	40	455	103	296	1691
1977-78	696	408	n.a	56	630	142	410	2342
1978-79	1123	651	n.a	77	309	218	271	2648
1979-80	1377	694	n.a	81	317	270	219	2957
1980-81	1332	763	n.a	108	353	283	405	3244
1981-82	1521	855	n.a	150	407	364	394	3691
1982-83	1735	971	n.a	194	501	410	480	4290
1983-84	2035	1105	11	299	458	380	1307	5594
1984-85	2399	1399	13	364	591	450	1642	6860
1985-86	3795	2234	163	539	989	531	613	8863
1986-87	4531	2682	247	610	1224	645	621	10561
1987-88	5255	3105	402	667	1445	728	675	12277
1988-89	5911	3406	218	373	749	1052	782	12491
1989-90	6658	3637	359	416	1431	1105	1403	15009
1990-91	8181	4189	408	473	1771	1217	1773	18012
1991-92	10566	5356	302	676	1775	1389	2195	22259
1992-93	12260	5929	352	812	2275	1612	2772	26013

Note: Figures of the years from 1977-78 to 1982-83 are budget estimates.

Sources:
i) Ministry of Education, Government of Pakistan. (1983-84 to 1992-93)
ii) Budget Statistics on Education, 1987. (1977-78 to 1982-83)

TABLE 31
TRENDS IN SUB-SECTORAL DEVELOPMENT EXPENDITURES

[Rupees in Million]

Years	General Hospital	Rural Health	Others	Total
1972-73	31	16	74	122
1973-74	46	29	69	144
1974-75	55	42	119	216
1975-76	85	70	124	280
1976-77	109	68	165	342
1977-78	127	136	160	422
1978-79	145	148	214	507
1979-80	145	123	234	502
1980-81	173	187	267	627
1981-82	195	205	384	784
1982-83	250	275	456	981
1983-84	370	420	474	1264
1984-85	464	510	510	1483
1985-86	679	783	560	2023
1986-87	617	1611	543	2772
1987-88	605	2025	411	3041
1988-89	751	2040	439	3230
1989-90	831	2009	789	3629
1990-91	1208	1894	1175	4276
1991-92	1545	1634	2102	5282
1992-93	1952	1111	3189	6252

sources: i) Annual Development Programmes of Provincial Governments.
ii) White Paper on Budget, Punjab & NWFP, 1774-75 to 1982-83.
iii) A Study of Provincial Finances" by Shamshad Akhter, 1990.

TABLE 32

SHARE OF PROVINCES IN NATIONAL ANNUAL DEVELOPMENT PROGRAMME [ADP]

Years	Provincial ADP	National ADP	[Rs in Million]
			% Share of Provinces [SHp]
1972-73	1858	4455	41.7
1973-74	2770	6506	42.6
1974-75	3210	10574	30.4
1975-76	3749	13558	27.7
1976-77	4184	16239	25.8
1977-78	3718	17150	21.7
1978-79	4039	20579	19.6
1979-80	3624	21970	16.5
1980-81	4636	26137	17.7
1981-82	5800	27000	21.5
1982-83	6275	28255	22.2
1983-84	7375	28211	26.1
1984-85	7363	32653	22.5
1985-86	9897	37672	26.3
1986-87	12366	42815	28.9
1987-88	15821	46795	33.8
1988-89	15860	48000	33.0
1989-90	16211	57868	28.0
1990-91	24563	83112	29.6
1991-92	19315	95529	20.2
1992-93	24653	135022	18.3

Source: Pakistan Economic Survey.

EDUCATION

TABLE 33

NUMBER OF SCHOOLS BY LEVEL OF EDUCATION AND BY SEX IN PAKISTAN

	PRIMARY		MIDDLE		[Numbers] HIGH	
	Male [MPS]	Female [FPS]	Male [MMS]	Female [FMS]	Male [HSS]	Female [FSS]
1971-72	32564	13290	3072	1038	1676	571
1972-73	35143	14437	3243	1163	1877	621
1973-74	35523	15051	3363	1223	2024	718
1974-75	36066	15678	3447	1266	2128	770
1975-76	36971	15829	3476	1307	2241	806
1976-77	37221	15941	3638	1352	2354	860
1977-78	37644	16238	3741	1359	2359	880
1978-79	38411	16854	3801	1393	2423	898
1979-80	39449	17771	3826	1407	2437	924
1980-81	40573	18595	3883	1412	2562	917
1981-82	41697	19420	3939	1423	2587	1010
1982-83	50851	20507	3997	1435	2985	1052
1983-84	52352	20876	4221	1763	3042	1171
1984-85	52261	21551	4315	1817	3380	1250
1985-86	54766	22441	4367	1893	3362	1315
1986-87	73748	23480	4707	2062	3715	1538
1987-88	80986	24898	4832	2161	3890	1602
1988-89	76305	27377	4979	2865	4863	1753
1989-90	80556	29966	5003	3055	5289	1895
1990-91	84158	30422	5194	3345	5972	2039
1991-92	88082	31810	5300	3614	6711	2199
1992-93	90799	33372	5380	3917	7453	2367

Sources: i) Pakistan Education Statistics, 1979. (1972 to 1977)
 ii) Pakistan Education Statistics, 1989. (1978 to 1986)
 iii) Pakistan School Statistics, 1990. (1987)
 iv) Pakistan School Statistics, 1993. (1988 to 1993)

CLASS WISE ENROLLMENT IN PRIMARY SCHOOLS BY SEX IN PAKISTAN

[Numbers in Thousands]

	CLASS I		CLASS II		CLASS III		CLASS IV		CLASS V	
	Male [ENR]	Female [ENR]	Male [ENR]	Female [ENR]	Male [ENR]	Female [ENR]	Male [ENR]	Female [ENR]	Male [ENR]	Female [ENR]
1973-74	1081	486	743	273	619	236	545	213	458	160
1974-75	1086	504	788	301	629	247	562	211	483	169
1975-76	1090	534	812	318	677	270	603	232	509	191
1976-77	1116	541	865	322	739	282	667	243	553	200
1977-78	1070	565	698	320	603	270	554	239	691	205
1978-79	1123	610	736	324	617	269	550	232	475	195
1979-80	1136	647	750	341	723	177	548	213	479	199
1980-81	1205	685	788	365	652	292	566	233	483	208
1981-82	1267	723	826	393	681	308	584	253	487	219
1982-83	1376	766	896	416	738	327	633	268	527	232
1983-84	1584	844	993	439	820	354	700	295	589	242
1984-85	1635	843	798	456	822	377	721	318	600	258
1985-86	1636	893	812	479	860	395	749	331	627	267
1986-87	1603	944	1114	514	928	427	797	357	666	289
1987-88	1673	999	1091	599	1003	453	879	385	736	324
1988-89	1940	1191	1258	614	1099	503	1006	426	856	362
1989-90	2355	1288	1444	673	1173	532	1084	464	951	385
1990-91	2674	1379	1664	751	1294	601	1139	525	1023	437
1991-92*	2902	1497	1881	816	1396	650	1229	570	1118	477
1992-93*	3150	1625	2126	887	1506	703	1326	620	1222	521

Sources:

- i) Pakistan Education Statistics, 1979. (1974 to 1977)
- ii) Pakistan Education Statistics, 1989. (1978 to 1986)
- iii) Pakistan School Statistics, 1990. (1987)
- iv) Pakistan School Statistics, 1993. (1988 to 1991)

* Estimated on the basis of ACGR from 1985-86 to 1992-93.

TABLE 36
STUDENT PER SCHOOL IN CLASS I
AND VI BY SEX

Year's	STUDENTS PER SCHOOL		STUDENTS PER SCHOOL	
	CLASS I		CLASS VI	
	Male [MENRS ¹]	Female [FENRS ¹]	Male [MENRS ⁶]	Female [FENRS ⁶]
1973-74	30.4	32.3	62.6	50.5
1974-75	30.1	32.1	64.9	54.1
1975-76	29.5	33.8	63.7	54.9
1976-77	30.0	34.0	61.6	54.4
1977-78	28.4	34.8	64.6	54.8
1978-79	29.2	36.2	63.7	57.0
1979-80	28.8	36.4	66.0	60.7
1980-81	29.7	36.8	65.6	63.7
1981-82	30.4	37.2	66.3	63.9
1982-83	27.1	37.4	70.4	65.4
1983-84	30.3	40.4	71.8	56.8
1984-85	31.3	39.1	71.2	57.3
1985-86	29.9	39.8	71.3	65.7
1986-87	21.7	40.2	69.3	62.5
1987-88	20.7	40.1	70.2	67.8
1988-89	25.4	43.5	68.4	61.2
1989-90	29.2	43.0	70.4	63.1
1990-91	31.8	45.3	72.0	66.9
1991-92	32.9	47.1	72.3	71.5
1992-93	34.7	48.7	73.1	76.3

Source: Estimated from Tables 33, 34 and 35.

TABLE 37
ENROLLMENT RATIOS

Years	PRIMARY			SECONDARY		
	Male [MPENRR]	Female [FPENRR]	Total	Male [MSENRR]	Female [FSENRR]	Total
1973-74	59.1	25.6	43.1	24.4	8.7	17.4
1974-75	59.2	26.0	43.3	25.8	9.5	18.5
1975-76	59.8	27.2	44.1	26.2	9.8	18.9
1976-77	62.1	27.0	45.2	26.3	10.0	19.0
1977-78	55.4	26.3	41.4	25.3	10.0	18.5
1978-79	52.1	26.0	39.5	23.9	10.0	17.6
1979-80	52.6	24.3	39.0	24.4	10.0	18.0
1980-81	52.0	26.7	39.7	24.3	10.1	17.9
1981-82	52.6	27.5	40.4	24.6	10.2	18.1
1982-83	55.5	28.2	42.2	26.2	10.3	19.0
1983-84	60.6	29.5	45.4	27.5	10.7	19.9
1984-85	57.5	29.6	43.9	28.0	11.0	20.3
1985-86	57.2	30.1	43.9	27.8	12.2	20.7
1986-87	60.7	31.2	46.2	28.6	12.6	21.3
1987-88	62.2	32.9	47.8	29.7	14.0	22.5
1988-89	69.1	35.8	52.7	31.0	14.9	23.6
1989-90	76.5	37.4	57.2	32.7	16.0	25.1
1990-91	82.7	40.0	61.6	35.2	18.2	27.4
1991-92	87.8	42.1	65.2	36.6	19.8	28.9
1992-93	93.3	44.2	68.9	38.0	21.5	30.4

Source: Estimated from Tables 33, 34 and 35.

TABLE 38
NUMBER OF TEACHERS BY LEVEL OF EDUCATION
AND BY SEX IN PAKISTAN

[Numbers in Thousands]

	PRIMARY		MIDDLE		HIGH	
	Male	Female	Male	Female	Male	Female
1971-72	76	30	27	9	27	11
1972-73	76	33	30	11	29	12
1973-74	81	35	30	12	32	13
1974-75	83	42	31	13	36	15
1975-76	84	44	33	14	39	17
1976-77	89	45	32	14	42	18
1977-78	89	45	35	14	42	18
1978-79	94	43	36	14	45	18
1979-80	93	48	37	15	44	19
1980-81	101	49	37	15	46	20
1981-82	110	50	38	16	48	21
1982-83	120	56	41	16	57	22
1983-84	120	57	39	19	54	24
1984-85	122	57	40	17	54	25
1985-86	123	57	40	17	57	25
1986-87	127	62	41	18	64	29
1987-88	132	64	43	19	68	32
1988-89	169	80	50	25	88	38
1989-90	196	85	52	28	100	41
1990-91	223	85	53	29	108	42
1991-92	253	90	56	32	122	46
1992-93	266	94	58	35	135	48

Sources: i) Pakistan Education Statistics, 1979. (1972 to 1977)
ii) Pakistan Education Statistics, 1989. (1978 to 1986)
iii) Pakistan School Statistics, 1990. (1987)
iv) Pakistan School Statistics, 1993. (1988 to 1993)

TABLE 39
ENROLLMENT IN COLLEGES

ENROLLMENT (000) ENROLLMENT PER COLLEGE

Years	Male [MENR]	Female [FENR]	Male [MENRC]	Female [FENRC]
1971-72	138	49	562	526
1972-73	140	47	570	525
1973-74	142	53	549	555
1974-75	150	59	564	611
1975-76	154	58	517	542
1976-77	156	66	493	572
1977-78	149	72	475	621
1978-79	158	75	510	630
1979-80	175	78	561	661
1980-81	183	87	583	731
1981-82	189	94	591	783
1982-83	196	101	607	815
1983-84	244	111	765	740
1984-85	256	117	815	765
1985-86	274	126	848	797
1986-87	262	125	792	731
1987-88	285	135	826	665
1988-89	285	143	814	694
1989-90	304	165	833	786
1990-91	314	182	797	835
1991-92	328	199	796	861
1992-93	341	220	793	898

Sources: i) Pakistan Education Statistics, 1979. (1972 to 1977)
ii) Economic Survey, Government of Pakistan, 1992-93.
iii) Statistics Supplement, 1991-92, C1978 to 1980)
iv) Pakistan Education Statistics, 1993. (1981 to 1993)

TABLE 40
NUMBER OF COLLEGES* AND TEACHERS IN PAKISTAN

[Numbers]

Years	COLLEGES		TEACHERS		TEACHERS PER COLLEGE	
	Male [MC]	Female [FC]	Male	Female	Male	Female
1971-72	245	93	5995	2318	24	25
1972-73	245	89	5750	2596	23	29
1973-74	259	95	6557	2433	25	26
1974-75	265	96	6993	2642	26	28
1975-76	297	107	8146	3167	27	30
1976-77	317	116	8588	3246	27	28
1977-78	314	116	8364	3184	27	27
1978-79	310	119	8488	3348	27	28
1979-80	312	118	8647	3430	28	29
1980-81	314	119	8840	3544	28	30
1981-82	320	120	9033	3658	28	30
1982-83	323	124	9225	3775	29	30
1983-84	319	150	7988	4142	25	28
1984-85	314	153	8646	4305	28	28
1985-86	323	158	10599	5000	33	32
1986-87	331	171	13349	5437	40	32
1987-88	345	203	10998	5492	32	27
1988-89	350	206	11242	5686	32	28
1989-90	365	210	11567	5780	32	28
1990-91	394	218	11752	5841	30	27
1991-92	412	231	11996	5946	29	26
1992-93	430	245	12242	6055	28	25

* Includes Intermediate and Degree Colleges.

Sources: i) Pakistan Education Statistics, 1979. (1972 to 1977)

ii) Economic Survey, Government of Pakistan, 1992-93.

Statistics Supplement, 1991-92. (1978 to 1980)

iii) Pakistan Education Statistics, 1993. (1981 to 1993)

TABLE 41

**NUMBER OF UNIVERSITIES, ENROLLMENTS AND
TEACHERS IN PAKISTAN**

[Numbers]

UNIVERSITIES		ENROLLMENT			TEACHERS		
Years	Male	Female	Male [MENRU]	Female [FEMRU]	Male	Female	Total [UT]
1971-72	8	0	13629	3878	1499	150	1649
1972-73	8	0	14466	4212	1473	171	1644
1973-74	8	0	14907	4184	1654	185	1839
1974-75	10	0	16895	4500	1935	260	2195
1975-76	12	0	17651	5121	2039	293	2332
1976-77	12	0	18407	5742	2143	326	2469
1977-78	15	0	34132	6998	2907	358	3265
1978-79	15	0	32623	6000	3233	340	3573
1979-80	15	0	36098	5712	2736	332	3068
1980-81	19	0	35575	7113	2788	395	3183
1981-82	20	0	39090	8483	2972	385	3357
1982-83	20	0	41061	7851	2873	449	3322
1983-84	20	0	42602	7816	3002	488	3490
1984-85	21	0	45624	8407	3080	509	3589
1985-86	22	0	51090	8801	3199	541	3740
1986-87	22	0	51796	9523	3293	585	3878
1987-88	22	0	55554	9786	3418	602	4020
1988-89	22	0	59313	10048	3543	619	4162
1989-90	22	0	63072	10310	3666	638	4304
1990-91	22	0	69754	10600	5232	656	5888
1991-92	23	0	71216	10887	5393	675	6068

Sources: i) Pakistan Education Statistics, 1979.(1972 to 1977)
 ii) Economic Survey, Government of Pakistan, 1992-93.
 Statistics Supplement, 1991-92. (1978 to 1980)
 iii) Pakistan Education Statistics, 1993. (1981 to 1993)

TABLE 42
LITERACY RATE IN PAKISTAN

Years	[%]	
	Male [MLR]	Female [FLR]
1971-72*	30.2	11.6
1972-73	30.7	12.0
1973-74	31.2	12.5
1974-75	31.8	12.9
1975-76	32.3	13.4
1976-77	32.8	13.9
1977-78	33.4	14.4
1978-79	33.9	14.9
1979-80	34.5	15.4
1980-81*	35.1	16.0
1981-82	36.0	16.4
1982-83	36.9	16.9
1983-84	37.8	17.4
1984-85	38.8	17.9
1985-86	39.7	18.4
1986-87	40.7	18.9
1987-88	41.8	19.4
1988-89	42.8	20.0
1989-90	43.9	20.5
1990-91	45.0	21.1
1991-92	46.1	21.7
1992-93**	47.3	22.3

* Census figures

** Estimated by Planning and Development Division,

Source: Economic Survey, Government of Pakistan, 1992-93.

HEALTH

TABLE 43

HEALTH FACILTTES

Years	Hospital	Dispensaries	BHUs & SHCs	MCH Centres	RHC	TB Centres	Total Beds
			[BHU]	[MCH]			
1971-72	496	2137	249	675	87	82	35337
1972-73	521	2566	255	662	90	84	35655
1973-74	517	2836	290	690	102	89	35866
1974-75	518	2908	373	696	134	89	37776
1975-76	525	3063	536	715	173	95	39129
1976-77	528	3220	544	726	186	95	40518
1977-78	536	3206	554	748	200	95	42469
1978-79	550	3367	645	772	211	98	44367
1979-80	602	3466	736	812	217	98	47412
1980-81	600	3478	774	823	243	99	48441
1981-82	613	3459	1587	817	283	98	50335
1982-83	626	3351	1982	794	302	98	52161
1983-84	633	3386	2366	787	319	96	53603
1984-85	652	3415	2647	778	334	100	55886
1985-86	670	3441	2902	773	349	101	57709
1986-87	682	3498	3150	798	383	104	60093
1987-88	710	3616	3454	998	417	211	64471
1988-89	719	3659	3818	1027	448	211	66375
1989-90	756	3795	4213	1050	459	220	72997
1990-91	776	3993	4414	1057	465	219	75805
1991-92	778	4095	4526	1055	470	228	76938

Source : Economic Survey, Government of Pakistan, 1992-93

TABLE 44
HEALTH PERSONNEL

Years	Doctors [DOCT]	Nurses [NURS]
1971-72	5313	
1972-73	5687	-
1973-74	6192	946
1974-75	6668	1985
1975-76	7184	2526
1976-77	7965	3204
1977-78	8822	3892
1978-79	9925	4552
1979-80	11705	5336
1980-81	14928	6110
1981-82	18295	6832
1982-83	22087	7348
1983-84	26982	8280
1984-85	31460	10529
1985-86	35592	12014
1986-87	40216	13002
1987-88	44634	14015
1988-89	49207	15861
1989-90	53960	16948
1990-91	57765	18150
1991-92	57765	19389

Source: Economic Survey, Government of Pakistan, 1992-93

TABLE 45
EXPANDED PROGRAMME OF IMMUNIZATION [IMM]

[Number in Thousand]

Years	B.C.G	POLIO						D.P.T.			D.P.T.			T.T		Measles
		I	II	III	BR	I	II	III	BR	I	II	BR	I	II	BR	
1981	1116	1013	494	184	58	472	232	138	251	361	171	196	283	141	2	195
1982	1317	1297	742	289	162	576	363	254	400	476	263	447	371	173	1	318
1983	4203	6467	4614	1850	226	2334	1357	852	81	3960	2656	105	511	245	-	1416
1984	6674	6364	5960	6055	794	2747	2422	2382	295	3585	3510	531	463	280	8	2522
1985	3459	3779	3272	2313	2108	2498	2057	1832	762	1251	1157	1302	671	385	23	2383
1986	4295	4912	3977	3005	1014	3685	3134	2905	615	1169	799	417	1848	1208	19	3124
1987	4238	4751	3895	3130	1272	3705	3276	3066	812	775	619	463	2242	1497	49	3373
1988	4236	4769	3768	3169	1139	3756	2377	3115	950	557	497	193	2938	2079	133	3172
1989	4066	4883	3900	3511	992	4018	3603	3494	923	332	292	68	4422	3113	160	3535
1990	4674	5479	4279	4018	1028	4552	1070	3965	980	279	228	39	5192	3670	1043	4393
1991	4429	5610	4468	3899	1135	4417	3953	3887	956	127	108	180	4348	3728	748	3985

Sources: i) Economic Survey, Government of Pakistan, 1992-93
ii) Pakistan Statistical Yearbook, 1991.

PUBLIC HEALTH

TABLE 46

PERCENTAGE OF HOUSING UNITS WITH ACCESS
TO WATER SUPPLY AND SANITATION

Years	Water Supply		Sanitation	
	Urban [UPCOV _{UWS}]	Rural [RPCOV _{RWS}]	Urban [UPCOV _{US}]	Rural [RPCOV _{RS}]
1972-73	87.9	48.4	60.9	17.0
1973-74	88.7	49.4	62.2	17.4
1974-75	89.5	50.5	63.7	17.9
1975-76	90.3	51.5	65.1	18.4
1976-77	91.2	52.7	66.6	18.9
1977-78	92.0	53.9	68.1	19.4
1978-79	92.9	54.9	69.7	19.9
1979-80	93.7	56.1	71.3	20.4
1980-81	94.6	57.3	72.9	21.0
1981-82	94.8	59.0	74.6	21.5
1982-83	94.9	60.8	76.3	22.1
1983-84	95.1	62.7	78.0	22.7
1984-85	95.3	64.6	79.8	23.3
1985-86	95.4	66.6	81.6	23.9
1986-87	95.6	68.6	83.4	24.6
1987-88	95.8	70.7	85.4	25.2
1988-89	95.9	72.9	87.3	25.9
1989-90	96.1	75.1	89.3	26.6
1990-91	96.3	77.4	91.3	27.3
1991-92	96.4	79.7	93.4	28.0
1992-93	96.6	82.2	95.5	28.9

TABLE 47
UNIT COSTS OF
PROVISION OF SOCIAL SERVICES

	Unit	Punjab	Sindh	NWFP	Balochistan
EDUCATION					
Mosque School New	#		180		
Mosque School Upgrading	#	290	200		
Primary School	#	400	450	450	420
Upgradation PS Co MS	#	550	2341	700	3500
Upgradation MS to HS	#	780		1200	1000
Upgradation MS to HSC	#	3980	4500	4700	
Upgradation HS to HSC	#	3200		3500	
Upgradation HSC to Degree	#	4500	5152	5930	
Teachers Training Elementary	#		11750		3730
Teachers Training Others	#	22879		3730	
Construction Inter College	#	8000		19164	8654
Construction Degree College	#	11200	14939	15140	
HEALTH					
Basic Health Unit	#	2200	2500	2700	1800
Rural Health Centre	#	9667	7393	7000	6500
Urban Health Centre	#		1489		
Maternity Child/Health	#		20719		
Dispensary	#		827		1149
THQ Hospital (40 beds)	/bed	17110		40000	
DHQ Hospital (125 beds)	/bed	76262		56670	
Upgradation RHC to THQ	/bed	4200	3500		4399
Upgradation THQ to DHQ	/bed		10000		
Upgradation of BHU to RHC	/bed	8834	10138	10000	13000

OTHER SOCIAL SECTOR MAGNITUDES

TABLE 48
 PERCENTAGE DISTRIBUTION OF EARNERS
 BY MONTHLY INCOME AND MAJOR OCCUPATION GROUPS

MAJOR OCCUPATION GROUPS	601 TO 700		701 TO 800		801 TO 1000		1001 TO 1500		1501 TO 2000		2001 TO 2500		2501 TO 3000		3001 TO 3500		3501 TO 4000		4001 TO 4500		4501 AND ABOVE	
	491	664	767	928	1284	1760	2272	2787	3266	3759	4273	8207										
Average Monthly Earners	4.47	0.50	4.71	4.85	5.93	4.10	4.51	8.10	6.59	9.42	8.44	17.39										
Professional, Technical and Related Worker	0.00	0.00	0.00	0.00	0.15	0.42	0.68	2.04	3.38	4.40	5.54	9.32										
Administrative and Managerial Workers	0.00	0.59	1.99	3.60	4.96	6.55	8.09	6.30	9.99	8.33	11.54	10.16										
Clerical and Related Workers	5.80	31.32	27.67	20.87	21.36	22.49	22.44	25.33	25.30	24.49	21.62	28.38										
Sales Workers	21.29	7.33	15.88	12.75	16.34	12.62	12.16	8.84	8.68	4.82	11.48	6.02										
Service Workers	12.48	4.46	2.91	3.29	5.22	6.09	5.73	4.51	4.57	2.61	4.48	4.18										
Agriculture, Animal Husbandry & Forestry Workers, Fishermen and Hunters	55.95	55.81	46.85	54.64	45.95	47.46	46.29	44.57	41.26	45.92	36.91	24.21										
Production & Related Workers, Transport Equipment Operators and Labourers	0.00	0.00	0.00	0.00	0.09	0.28	0.09	0.31	0.23	0.00	0.00	0.34										
Workers not Classifiable by Occupation																						

Source : Household Income & Expenditure Survey, 1987-88.

TABLE 49
PERCENTAGE DISTRIBUTION OF POPULATION 10 YEARS
AGE AND ABOVE BY SEX AND LEVEL OF EDUCATION

	1990-91	1986-87	1982-83	1978-79	1974-75	1971-72
No Formal Education						
Both	1.15	0.00	0.00	0.00	0.00	0.00
Male	0.86	0.00	0.00	0.00	0.00	0.00
Female	0.29	0.00	0.00	0.00	0.00	0.00
Formal Education						
Both	28.52	28.95	34.31	30.77	26.54	25.42
Male	25.98	20.59	25.00	22.99	20.37	19.98
Female	2.54	8.36	9.31	7.78	6.17	5.44
K.G. Nursery						
Both	0.32	0.69	0.11	0.00	0.00	0.00
Male	0.27	0.46	0.07	0.00	0.00	0.00
Female	0.06	0.23	0.04	0.00	0.00	0.00
K.G but Below Primary						
Both	3.59	7.15	5.11	4.55	6.06	11.53
Male	3.09	4.84	3.69	3.29	4.59	8.71
Female	0.51	2.31	1.42	1.26	1.47	2.82
Primary but Below Middle						
Both	12.58	9.50	12.49	10.60	13.86	10.01
Male	11.23	6.57	8.72	7.79	10.63	8.08
Female	1.34	2.93	3.77	2.81	3.23	1.93
Middle but Below Metric						
Both	6.12	5.07	7.66	7.58	0.00	0.00
Male	5.83	3.79	5.75	5.73	0.00	0.00
Female	0.30	1.28	1.91	1.85	0.00	0.00
Metric but Below Inter						
Both	4.57	3.86	5.56	5.11	5.25	3.15
Male	4.26	2.90	4.24	3.87	4.12	2.58
Female	0.31	0.96	1.32	1.24	1.13	0.57
Inter but Below Degree						
Both	1.00	1.41	1.78	1.55	0.00	0.00
Male	0.99	1.03	1.32	1.21	0.00	0.00
Female	0.01	0.38	0.46	0.34	0.00	0.00
Degree in Other						
Both	0.29	0.83	1.03	0.93	0.83	0.44
Male	0.28	0.62	0.76	0.71	0.66	0.36
Female	0.01	0.21	0.27	0.22	0.1-	7 0.08
Post Graduate (MA /Ph.D)						
Both	0.05	0.28	0.35	0.31	0.35	0.20
Male	0.05	0.23	0.28	0.26	0.28	0.17
Female	0.00	0.05	0.07	0.05	0.07	0.03
Others						
Both	0.00	0.16	0.21	0.14	0.19	0.09
Male	0.00	0.15	0.17	0.13	0.09	0.08
Female	0.00	0.01	0.04	0.01	0.10	0.01

TABLE 50
PERCENTAGE DISTRIBUTION OF POPULATION
10 YEARS AGE AND ABOVE BY SEX AND LITERACY

	1971-72	1974-75	1978-79	1982-83	1986-87	1990-91
Total						
Both	100.0	100.0	100.0	100.0	100.0	100.0
Male	52.9	53.2	52.3	52.3	51.7	66.5
Female	47.1	46.8	47.7	47.7	48.3	33.5
Illiterate						
Both	79.9	73.5	69.2	65.7	71.0	70.3
Male	36.9	32.8	29.3	27.3	31.1	39.7
Female	43.0	40.7	39.8	38.4	39.9	30.7
Literate						
Both	20.1	26.6	30.8	34.3	29.0	29.7
Male	16.0	20.4	23.0	25.0	20.6	26.8
Female	4.1	6.2	7.8	9.3	8.4	2.8

Source: Labour Force Surveys.

TABLE 51
 PERCENTAGE DISTRIBUTION OF EMPLOYED PERSONS BY MAJOR INDUSTRY
 DIVISION AND MAJOR OCCUPATION GROUPS, 1971-72

Major Industry Division	Total & Technical	Professional	Admin. & Managerial	Clerical	Sales Related	Service Related	Agricul- tural etc.	Production & Related
Total	100.0	2.09	0.51	2.30	12.05	3.71	57.22	22.12
Agriculture, Forestry, Hunting & Fishing	57.32	0.18	0.01	0.01	0.02	0.03	57.04	0.03
Mining & Quarrying	0.45	0.03	0.01	0.01	0.00	0.02	0.00	0.38
Manufacturing	12.47	0.08	0.09	0.29	0.04	0.12	0.01	11.84
Electricity, Gas and Water	0.37	0.02	0.01	0.07	0.00	0.04	0.00	0.23
Construction	3.41	0.05	0.10	0.05	0.01	0.05	0.00	3.15
Wholesale & Retail Trade & Restaurant & Hotels	9.88	0.01	0.08	0.49	8.80	0.26	0.02	0.23
Transport, Storage and Communication	4.84	0.03	0.04	0.41	0.01	0.14	0.09	4.12
Financing, Insurance, Real Estate & Business Services	0.86	0.13	0.09	0.18	0.19	0.04	0.00	0.23
Community, Social & Personnel Services	7.27	1.52	0.08	0.79	0.07	3.01	0.04	1.76
Activity not Adequately defined	3.12	0.04	0.00	0.00	2.91	0.00	0.02	0.15

Source: Labour Force Survey, 1971-72.

TABLE 52
 PERCENTAGE DISTRIBUTION OF EMPLOYED PERSONS BY MAJOR INDUSTRY
 DIVISION AND MAJOR OCCUPATION GROUPS, 1974-75

Major Industry Division	Total	Professional & Technical	Admin. & Managerial	Clerical	Sales Related	Service Related	Agricul- tural etc.	Production & Related	Workers Not Clas- sifiable
Total	100.0	3.27	0.70	2.69	9.98	4.47	54.71	24.31	0.12
Agriculture, Forestry, Hunting & Fishing	54.80	0.30	0.00	0.05	0.00	0.04	54.54	0.13	0.00
Mining & Quarrying	0.15	0.00	0.00	0.01	0.00	0.00	0.01	0.13	0.00
Manufacturing	13.63	0.09	0.18	0.29	0.03	0.14	0.02	12.88	0.01
Electricity, Gas & Water	0.49	0.04	0.00	0.09	0.00	0.03	0.01	0.30	0.00
Construction	4.20	0.04	0.15	0.06	0.00	0.06	0.00	3.87	0.00
Wholesale & Retail Trade & Restaurant & Hotels	11.09	0.01	0.06	0.13	9.85	0.62	0.02	0.41	0.00
Transport, Storage and Communication	4.87	0.05	0.07	0.65	0.01	0.18	0.00	3.90	0.01
Financing, Insurance, Real Estate & Business Services	0.67	0.11	0.11	0.27	0.07	0.08	0.00	0.03	0.00
Community, Social & Personnel Services	9.78	2.58	0.13	1.13	0.02	3.32	0.09	2.48	0.03
Activity not Adequately defined	0.33	0.05	0.00	0.01	0.00	0.00	0.02	0.18	0.07

Source: Labour Force Survey, 1974-75.

TABLE 53
 PERCENTAGE DISTRIBUTION OF EMPLOYED PERSONS BY MAJOR INDUSTRY
 DIVISION AND MAJOR OCCUPATION GROUPS, 1978-79

Major Industry Division	Total & Technical	Professional	Admin. & Managerial	Clerical	Sales Related	Service Related	Agricul- tural etc.	Production & Related
Total	100.0	5.49	0.44	0.98	12.54	2.31	57.03	21.18
Agriculture, Forestry, Hunting & Fishing	57.72	0.47	0.17	0.12	0.00	0.12	56.73	0.10
Mining & Quarrying	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Manufacturing	7.95	0.25	0.01	0.10	0.00	0.00	0.00	7.50
Electricity, Gas & Water	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Construction	8.42	0.00	0.12	0.00	0.00	0.00	0.00	8.30
Wholesale & Retail Trade & Restaurant & Hotels	13.21	0.00	0.00	0.10	12.54	0.30	0.00	0.27
Transport, Storage and Communication	2.71	0.07	0.00	0.15	0.00	0.00	0.00	2.48
Financing, Insurance, Real Estate & Business Services	0.71	0.00	0.05	0.12	0.00	0.00	0.00	0.00
Community, Social & Personnel Services	8.62	4.45	0.00	0.27	0.00	1.89	0.05	1.96
Activity not Adequately defined	1.07	0.25	0.00	0.12	0.00	0.00	0.15	0.55

Source: Labour Force Survey, 1978-79.

TABLE 54
 PERCENTAGE DISTRIBUTION OF EMPLOYED PERSONS BY MAJOR INDUSTRY
 DIVISION AND MAJOR OCCUPATION GROUPS, 1982-83

Major Industry Division	Total & Technical	Professional	Admin. & Managerial	Clerical	Sales Related	Service Related	Agricul- tural etc.	Production & Related
Total	100.0	3.08	0.87	2.99	10.23	4.79	52.81	25.24
Agriculture, Forestry, Hunting & Fishing	52.73	0.01	0.00	0.02	0.00	0.01	52.62	0.06
Mining & Quarrying	0.01	0.01	0.02	0.01	0.00	0.00	0.00	0.07
Manufacturing	13.44	0.08	0.14	0.33	0.01	0.19	0.01	12.68
Electricity, Gas & Water	1.13	0.06	0.01	0.31	0.01	0.11	0.02	0.61
Construction	4.80	0.04	0.18	0.02	0.00	0.04	0.00	4.52
Wholesale & Retail Trade & Restaurant & Hotels	11.94	0.00	0.04	0.06	10.15	0.95	0.02	0.73
Transport, Storage and Communication	4.59	0.07	0.08	0.71	0.00	0.16	0.01	3.57
Financing, Insurance, Real Estate & Business Services	0.82	0.11	0.25	0.30	0.05	0.10	0.00	0.01
Community, Social & Personnel Services	10.19	2.70	0.15	1.23	0.01	3.22	0.13	2.74
Activity not Adequately defined	0.27	0.00	0.00	0.00	0.00	0.01	0.00	0.25

Source: Labour Force Survey, 1982-83.

TABLE 55
 PERCENTAGE DISTRIBUTION OF EMPLOYED PERSONS BY MAJOR INDUSTRY
 DIVISION AND MAJOR OCCUPATION GROUPS, 1986-87

Major Industry Division	Total	Professional & Technical	Admin. & Managerial	Clerical	Sales Related	Service Related	Agricultural etc.	Production & Related	Workers Not Classifiable
Total	100.0	3.84	0.69	4.02	11.33	4.33	48.83	26.90	0.08
Agriculture, Forestry, Hunting & Fishing	49.24	0.02	0.02	0.08	0.07	0.01	48.48	0.56	0.00
Mining & Quarrying	0.23	0.01	0.00	0.03	0.00	0.04	0.00	0.15	0.00
Manufacturing	14.00	0.24	0.13	0.40	0.19	0.14	0.03	12.86	0.01
Electricity, Gas & Water	0.73	0.06	0.01	0.18	0.00	0.05	0.04	0.39	0.00
Construction	6.01	0.07	0.15	0.10	0.01	0.11	0.04	5.54	0.00
Wholesale & Retail Trade & Restaurant & Hotels	12.05	0.05	0.01	0.10	10.86	0.56	0.01	0.46	0.00
Transport, Storage and Communication	5.25	0.13	0.04	1.00	0.05	0.10	0.01	3.91	0.01
Financing, Insurance, Real Estate & Business Services	0.77	0.07	0.19	0.32	0.11	0.04	0.01	0.03	0.00
Community, Social & Personnel Services	11.48	3.18	0.14	1.80	0.03	3.27	0.21	2.81	0.02
Activity not Adequately defined	0.25	0.01	0.00	0.01	0.01	0.01	0.00	0.19	0.04

Source: Labour Force Surveys.

**PERCENTAGE DISTRIBUTION OF EMPLOYED PERSONS BY MAJOR INDUSTRY
DIVISION AND MAJOR OCCUPATION GROUPS, 1990-91**

Major Industry Division	Total & Technical	Professional	Admin. & Managerial	Clerical	Sales Related	Service Related	Agricul- tural etc.	Production & Related
Total	100.0	4.86	0.95	4.53	12.15	4.89	48.64	25.97
Agriculture, Forestry, Hunting & Fishing	47.45	0.09	0.04	0.24	0.00	0.10	46.39	0.58
Mining & Quarrying	0.15	0.01	0.00	0.00	0.00	0.02	0.00	0.12
Manufacturing	12.23	0.24	0.19	0.51	0.08	0.25	0.01	10.95
Electricity, Gas & Water	0.83	0.07	0.02	0.26	0.02	0.04	0.01	0.42
Construction	6.62	0.05	0.13	0.07	0.01	0.05	0.04	6.26
Wholesale & Retail Trade & Restaurant & Hotels	13.24	0.01	0.14	0.08	11.84	0.72	0.03	0.42
Transport, Storage and Communication	5.24	0.10	0.03	0.81	0.02	0.17	0.01	4.11
Financing, Insurance, Real Estate & Business Services	0.89	0.08	0.19	0.40	0.09	0.09	0.00	0.05
Community, Social & Personnel Services	13.27	4.21	0.21	2.16	0.08	3.45	0.14	3.03
Activity not Adequately defined	0.06	0.00	0.00	0.00	0.01	0.00	0.01	0.03

Source: Labour Force Surveys, 1990-91.

TABL 57
PERCENTAGE DISTRIBUTION OF TOTAL POPULATION
BY AGE, SEX AND NATURE OF ACTIVITY

	1990-91	1986-87	1982-83	1978-79	1974-75	1971-72
Population						
Both	100.0	100.0	100.0	100.0	100.0	100.0
Male	51.76	51.42	51.83	52.12	52.74	52.72
Female	48.24	48.58	48.17	47.89	47.22	47.28
Total Civilian						
Both	27.97	30.81	30.19	31.03	29.46	29.90
Male	24.00	26.04	26.70	27.24	27.45	27.35
Female	3.97	4.77	3.49	3.79	2.01	2.55
Civilian Labour Force						
[Employed]						
Both	26.21	30.04	29.01	29.92	29.00	29.29
Male	22.91	25.32	25.59	26.42	27.00	26.80
Female	3.30	4.72	3.42	3.50	2.00	2.49
[Unemployed]						
Both	1.76	0.77	1.18	1.11	0.46	0.61
Male	1.09	0.72	1.11	0.82	0.45	0.55
Female	0.67	0.05	0.07	0.29	0.01	0.06
Non-Civilian Labour Force						
Both	72.03	69.19	69.81	68.98	70.50	70.10
Male	27.76	25.38	25.13	24.88	25.29	25.37
Female	44.27	43.81	44.68	44.10	45.21	44.73

Source: Labour Force Survey.

TABLE 58
DISTRIBUTION OF EMPLOYED PERSONS
BY LEVEL OF EDUCATION EMPLOYMENT STATUS AND SEX, 1990-91

Employment status	Total Employed	Illite- rate	Literate	Level of Education												
				No formal Education	K.G. Nursery	K.G. but Below Primary	Primary but Below Middle	Middle but Below Metric	Metric but Below Inter	Inter but Below Degree	Degree in Engg.	Degree in Medicine	Degree in Agri.	Degree in Other	Post Graduate (MA/Ph.D)	
Total Employed	100.00	60.40	39.59	1.54	0.41	3.54	12.81	7.50	8.09	2.81	0.42	0.20	0.03	1.70	0.56	
Both Sexes	87.40	49.90	37.49	1.36	0.39	3.38	12.29	7.24	7.60	2.63	0.40	0.17	0.03	1.53	0.48	
Male	12.60	10.50	2.10	0.18	0.02	0.16	0.52	0.26	0.49	0.18	0.02	0.03	0.00	0.17	0.08	
Employed	1.68	0.48	1.20	0.04	0.01	0.13	0.23	0.15	0.36	0.14	0.02	0.00	0.00	0.08	0.02	
Both Sexes	1.65	0.46	1.19	0.04	0.01	0.13	0.23	0.15	0.36	0.14	0.02	0.00	0.00	0.08	0.02	
Male	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Self Employed	42.24	28.10	14.15	0.69	0.18	1.53	5.56	2.93	2.31	0.55	0.04	0.03	0.01	0.25	0.05	
Both Sexes	40.31	26.45	13.86	0.65	0.17	1.51	5.45	2.88	2.28	0.54	0.04	0.03	0.01	0.25	0.05	
Male	1.93	1.65	0.29	0.04	0.01	0.02	0.11	0.05	0.03	0.01						
Unpaid Family Workers	21.55	15.06	6.39	0.25	0.07	0.77	2.71	1.32	0.99	0.21	0.01	0.00	0.00	0.05	0.01	
Both Sexes	14.33	8.45	5.78	0.19	0.06	0.66	2.42	1.26	0.92	0.21	0.01	0.00	0.00	0.05	0.01	
Male	7.22	6.61	0.61	0.06	0.01	0.11	0.29	0.06	0.07	0.00	0.00	0.00	0.00	0.00	0.00	
Employee	34.54	16.67	17.86	0.56	0.15	1.11	4.31	3.08	4.43	1.91	0.34	0.15	0.02	1.30	0.48	
Both Sexes	31.12	14.45	16.66	0.49	0.15	1.08	4.19	2.94	4.04	1.74	0.33	0.13	0.02	1.14	0.41	
Male	3.42	2.22	1.20	0.07	0.00	0.03	0.12	0.14	0.39	0.17	0.01	0.02	0.00	0.16	0.07	

Source: Labour Force Surveys, 1990-91.

RESULTS OF REGRESSION ANALYSIS

List of Variables

1.	Gross Domestic Product, New Methodology	NGDP
	Gross Domestic Product, Old Methodology	OGDP
2.	Gross National Product, New Methodology	NGNP
	Gross National Product, Old Methodology	OGNP
3.	Value of Imports, New Methodology	NVI
	Value of Imports, Old Methodology	OVI
4.	Value of Exports, New Methodology	NVE
	Value of Exports, Old Methodology	OVE
5.	Value Added in Manufacturing, New Methodology-	NVAN
	Value Added in Manufacturing, Old Methodology	OVAN
6.	Value Added in Agriculture, New Methodology	NVAA
	Value Added in Agriculture, Old Methodology	OVAA
7.	Total Investment, New Methodology	NTTIC
	Total Investment, Old Methodology	OTTIC
8.	Private Investment in Manufacturing, New Methodology	NPIM
	Private Investment in Manufacturing, Old Methodology	OPIM
9.	Other Private Investment, New Methodology	NOPI
	Other Private Investment, Old Methodology	OOPi

1. Gross Domestic Product
 $NGDPF = 10120.861 + 0.9502 OGDPF$
 $R^2 = 0.99$
2. Gross Domestic Product
 $NGNP = 28164.98 + 0.93224 OGNP$
 $R^2 = 0.99$
3. Value Added in Manufacturing
 $NVAN = -1487.726 + 0.870230 VAN$
 $R^2 = 0.49$
4. Value Added in Agriculture
 $NNAA = 73.8358 + 1.0356 OVAA$
 $R^2 = 0.99$
5. Value of Imports
 $NVI = 26630.25 + 1.0557 OVI + 5432 D85$
 $R^2 = 0.86$
6. Value of Exports
 $NVE = -42738.8 + 3.5071 OVE$
 $R^2 = 0.54$
7. Total Investment
 $NTTIC = 2037.72 + 1.05879 OTTIC$
 $R^2 = 0.99$
8. Private Investment in Manufacturing
 $NPIM = 871.1797 + 1.0072 OPIM2$
 $R^2 = 0.979$
9. Other Private Investment
 $NOPI = 2105.7081 + 1.34981 OOPI - 0.204381 OPP (-1)$
 $R^2 = 0.99$